ACADEMIC ANALYTICS

Portal User Guide

JANUARY 2019

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Important Notice to Users

There are different levels of access to the Academic Analytics database depending on the client's subscription; Comparative with Faculty Counts, Details, or Master License Agreement. Each of those subscription options affords different levels of access to the data. Moreover, client institutions have the option of restricting their on-campus users' access to specific pages or features of a tool in the Academic Analytics Portal.

This User Guide applies to all the features and functionality of the Academic Analytics data. We have indicated where specific features or functionality are restricted to subscription options. If you find certain features of the data described in these pages are not available to you, it is because of the level of subscription your institution has pursued or a result of institutional policy about access to the data.

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Conventions Used in Creating the Academic Analytics Portal

As tools and functionality are added to the pages of the Academic Analytics Portal v2, icons are increasingly used to represent content and features of the data. This list of conventions used in the Academic Analytics Portal will help users understand what they are looking at and the features available to them.

Widgets, blue circles with a question mark , appear beside the headings for each tool at each level of the data. Clicking on the widget will provide the user with information about the tool and how it can be used.

Portal tutorial videos have been added to help widgets. These videos provide short tutorials on how to use the portal tools under the Institution, Broad Field, Department and Program tabs. Links to videos have been embedded in the text of the help widgets for their respective tools. Video topics include:

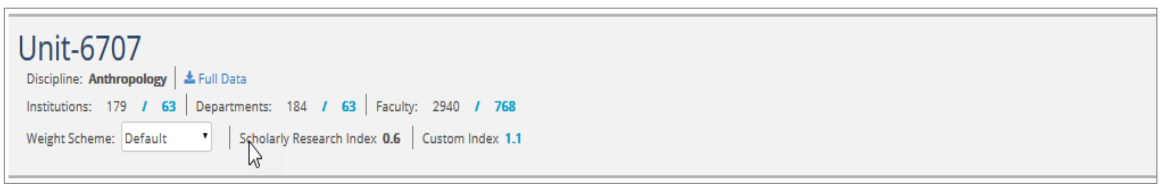
- Conventions Used in Creating the Academic Analytics Portal
- Institution
- Broad Field
- Departments and Programs
  - Custom Filters
  - Benchmarking
  - Faculty
  - Article Profile
  - Funding Profile
  - Award Profile
  - Book Profile
  - Unit Modeling

The ability to download data from pages is indicated by a download symbol in the top right-hand corner of the page. Please note: data downloads will reflect whichever comparative filters were selected to create the view.

When it is possible to expand a tool for easier viewing, an expansion arrow will appear in the top right-hand corner of the page.

Tools that are affected by the application of custom filters will be indicated with the addition of a "funnel" symbol.

Once custom peers and time windows have been applied to the data, notice that the summary line of unit information has been changed to reflect this custom application. The numbers of institutions, departments and faculty presented in blue are the custom summary numbers after application of the filters. Also note that the custom Scholarly Research Index score is presented in blue.



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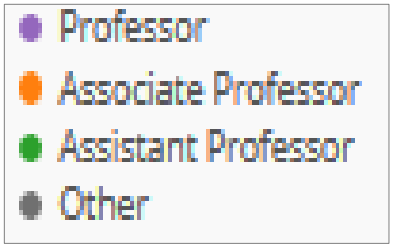
When you wish to apply a custom filter to the data and call up a saved filter from the drop-down menu, the “Apply Filter” will appear as a circle with a check mark on the line containing the filter name. Clicking on “Apply Filter”, the custom filter will be used for comparison on all subsequent pages of the portal.

Displays that present unit activity will use the following color scheme for each tracked variable family.

When referring to unit faculty, faculty rank will always be color coded.



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Portal V2 User's Guide

Prompted by comments and suggestions of our client institutions, Academic Analytics has redesigned the online portal that provides access to the Academic Analytics Database. All the pages and tools of the original version will be retained, and we have created additional pages and tools to provide even more access to the data. Our goal is to provide a portal that is easy to use and to navigate as well as providing more flexibility to view the data that is important to individual users.

The new version of the portal has been built to provide different avenues of approach to the data for different levels of higher education administration. Enhancements include:

- Dynamic, on-the-fly peer selection
- Normalize on custom federal agencies and create custom views of the data
- Normalize on custom journal article sets and create custom views of the data
- Normalize on custom award sets and create custom views of the data
- Normalize on custom book press sets and create custom views of the data
- Intuitive dashboard look
- Unit modeling and what-if scenarios
- Enhanced collaboration visuals featuring a network diagram

Our goal is to build in intelligence into the portal by making common associations of related tasks performed by various levels of higher education administration. At the same time, we are encouraging our clients to look beyond rankings to build in their own intelligence through customizing peers, data elements and weights with their views of the data they routinely use. We believe this flexibility will provide clients with more actionable data and more support for the decisions they must make on a daily basis.

The new version of the portal is divided into nine sections:

- Home
- Research Insight
- Institution
- Broad Fields
- Departments
- Programs
- Downloads
- Feedback
- Release Notes

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Home

Home is the initial page a user lands on when accessing the portal. Home provides links to four sources of information: User Information and Portal Documentation, Upcoming and Recent Events, Custom Analysis Showcase, and the Academic Analytics Newsletter, Academic Edge. User Information and Portal Documentation provides links to important documents that will assist users to derive the most from the data. These documents include About Academic Analytics, Detail Data User's Guide, FAQ, Taxonomy, Methodology, Calculations and Definitions, Faculty Definitions and Collection Methodology, Variable Key and Definitions, and lists of awards, conference proceedings, and journal articles included in the data. Upcoming and Recent Events provides links to information about a variety of workshops we host and many academic conferences we participate in throughout the year. Custom Analysis Showcase is the latest addition to the Academic Analytics on-line portal. It is designed to showcase the in-depth data analyses performed by Academic Analytics analysts for clients. Guidebooks and videos accompany many of the posted reports.

These sample reports and guide books will provide clients with additional information on how Academic Analytics data can be applied to a host of recurring topics such as:

- Faculty Development
- Annual Program Review
- Award Nomination Strategies
- Analyzing Graduate Placement in Academia
- Strategic Planning
- Evaluation of Readiness to Offer the Ph.D.
- Grant Analysis
- Awards Analysis

These sample reports have been "standardized" for public presentation; however, each report can be customized to meet a client's specific needs. Further, new reports on different topics are always possible.

The Newsletter provides links to all issues of Academic Edge, which may be of interest to users of the Academic Analytics database.

Links to Research Insight, Institution, Broad Fields, Departments, Programs, Downloads, Feedback and Release Notes sections of the database appear on the left side of the screen.

Feedback provides users with the means to log a portal defect or request a feature be added to the portal. Release Notes provide a list of new features as well as a list of known issues.

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Research Insight

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Based on the client demand for special reports identifying faculty candidates for national awards, and possible nominators or sources of letters of support for those nominations, this update to Research Insight includes Suggested Honorific Awards to the Faculty Profile section of Research Insight. There, users will be able to open the Suggested Honorific Awards tab to view the award name, governing organization, NRC prestige classification, open and close dates (when available), the individual's suitability for that award and additional data on previous winners associated with a possible candidate which provides a pool of likely nominators or sources of letters of support.

In addition, clicking on an award name provides an award profile which includes

- Award Overview describing the award and eligibility requirements
- Past recipients listing up to 100 most recent recipients
- Award Analysis
    - Broad field
    - Discipline
    - Institutional affiliation of previous winners
    - Carnegie, AAU, and Public/Private classifications
    - Distribution of the academic ages of previous winners

For a complete list of updates included in this release, visit our Release Notes page.

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Background

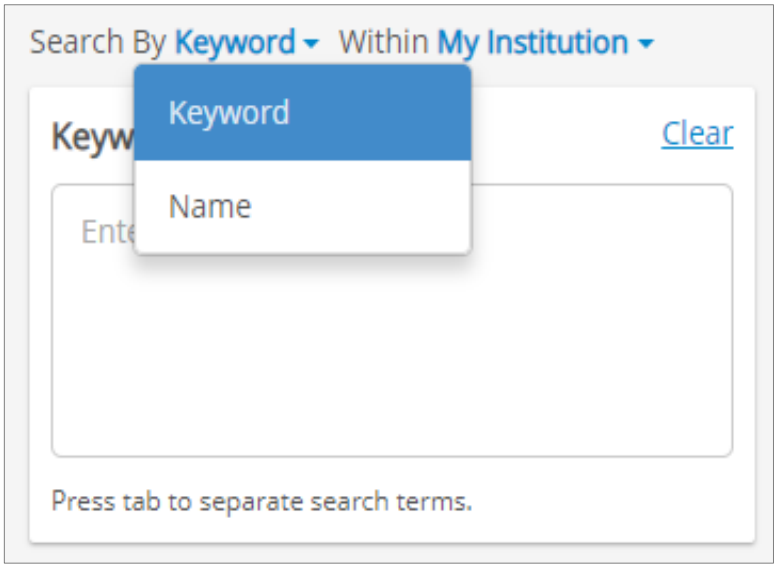
Research Insight is a search engine that indexes the titles and abstracts of articles, conference proceedings, and federal grants stored in the Academic Analytics data warehouse to provide a targeted result set for searches on keywords and faculty names. Research Insight is a separate tool on the Academic Analytics portal. Coverage is national, not limited to a single institution, department or program, and is not restricted to comparative time windows. Coverage is as follows:

Articles:	2004 – present.
Citations:	2004 – present.
Conference Proceedings:	2008 – present.
Books:	2004 – present.
Grants:	2006 – present.
Awards:	1998 – present.

The Search Interface

Search by Keyword

The user begins by selecting a search by keyword or faculty name. Keyword search is the default setting.



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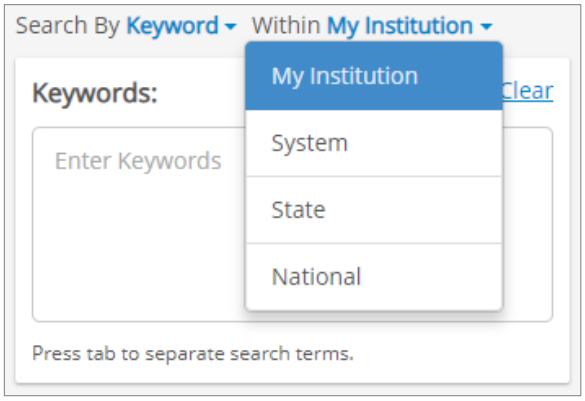
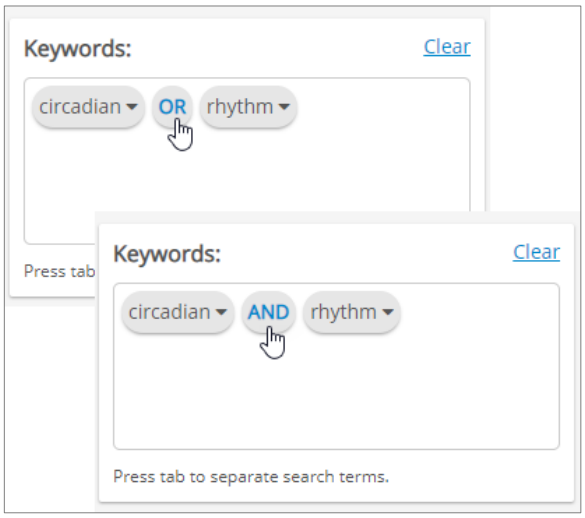
The search can be conducted across the entire country, across the user's state, across the user's university system (if applicable) or at the user's institution.



Next, the user enters a keyword into the search area. Pressing the tab button between keywords will add a Boolean "OR" operator. Clicking the operator bubble will switch the operator type from "or" to "and" or vice versa.



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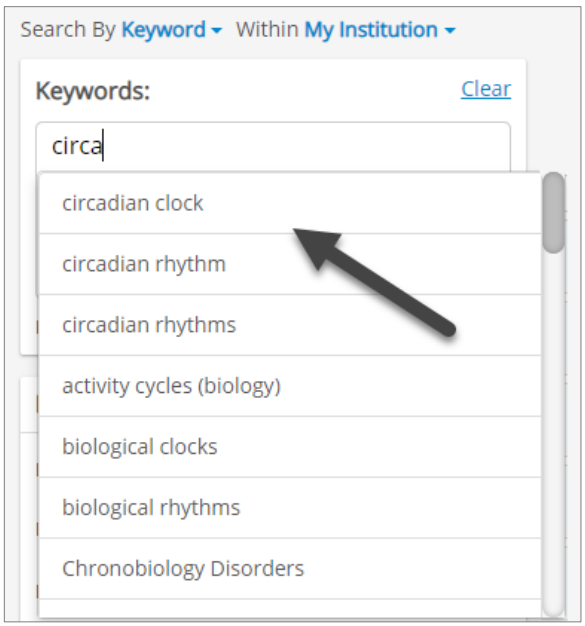
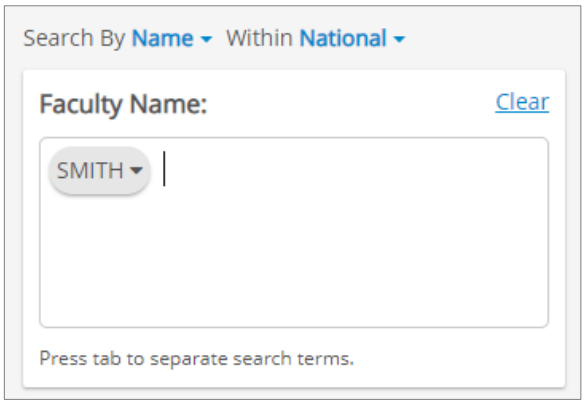
Suggested terms will appear as text is entered. Clicking a suggested term will add it to the search bar. Suggested terms are derived from several publicly available ontologies, including those published by the U.S. National Library of Medicine, the U.S. Department of Agriculture and the National Aeronautics and Space Administration.



Search Results: Search by Faculty Name

A search by faculty name will return all faculty with a name similar to the one which was queried. For this type of search, Related Terms will not populate, the Activity Related to Your Search section will not be visible, and the Relevance (blue) links in the results table will show “0”.



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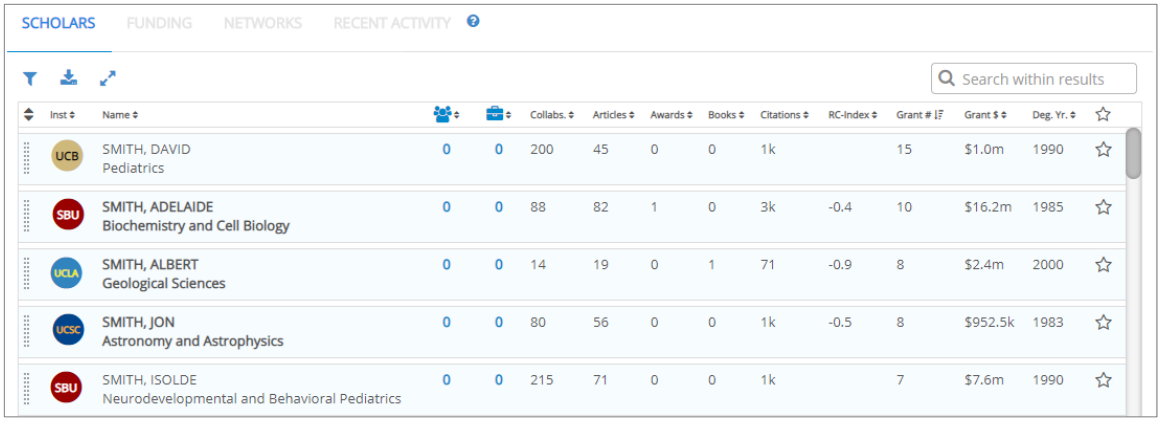
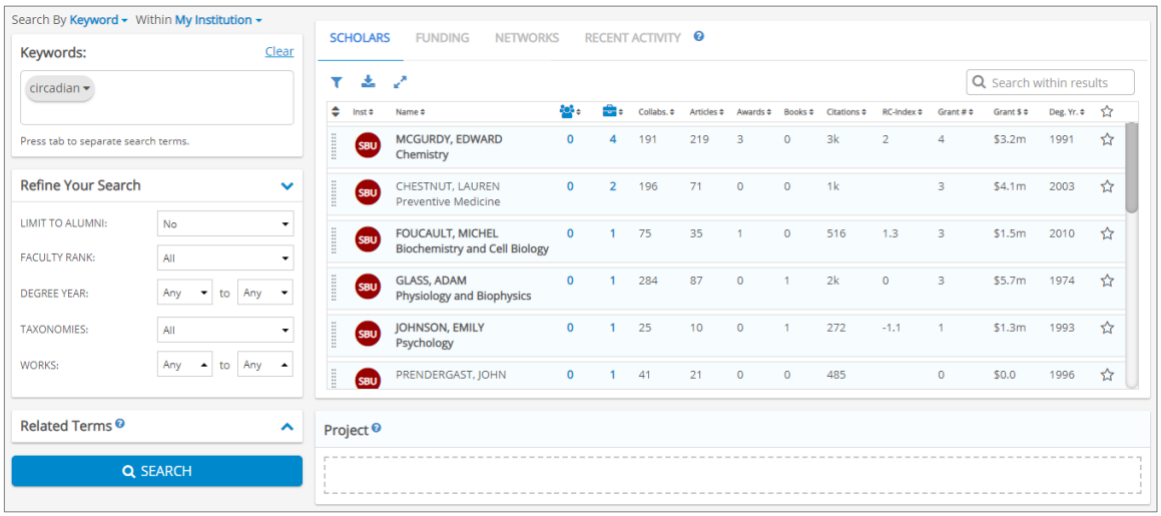


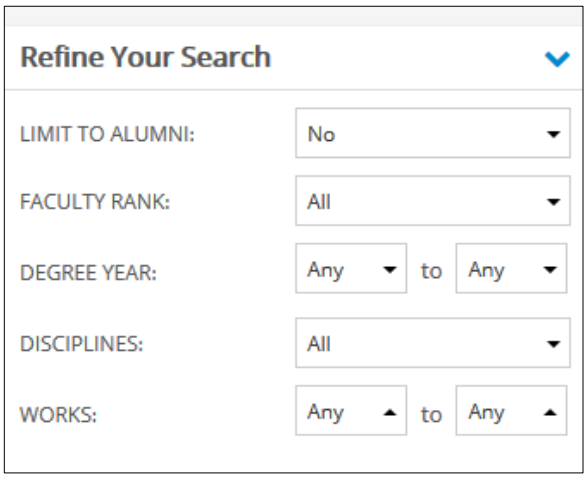
Search Results: Search by Keyword



An initial search of a research term or terms produces three displays: Results, Advanced Filters and Related Terms.

Filters

Filtering options are based on which type of search is selected (within My Institution, System, State, National). Filters affect returned Scholars and Networks.



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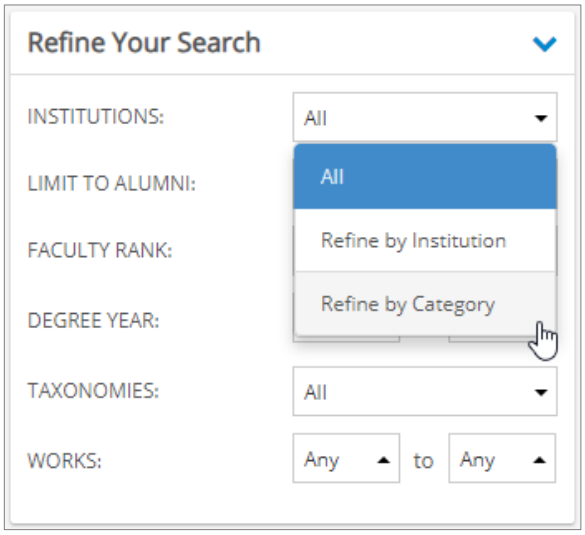
All types of searches have the following filters:

- Limit to Alumni
  - Only returns results for scholars with degree institution = user institution.
- Faculty Rank
  - Only returns results for scholars with selected faculty rank.
  - Can select any combination of Professor, Associate, Assistant, or Other.
- Degree Year
  - Only returns results for scholars with degree year in selected range.
- Disciplines
  - Only returns results for scholars associated with selected Level 1 taxonomic classifications.
- Works
  - Returns results based only on works published/awarded in selected range.

Searches within System, State, National have the following additional filters:

- Institutions
  - Users can refine by category or select individual institutions.
    - Category options are: AAU, Public/Private, Carnegie, and Land Grant.
    - "Refine by Institution" allows manual selection of institutions within the system, state or nation.

A search only returns results for scholars at selected institutions.



Results

The Results section is divided into Scholars, Funding, Networks, and Recent Activity tabs. The Scholars tab consists of a list of individuals whose research is associated with the search. The Funding tab consists of a list of funding opportunities related to the search. Networks shows national, state or institutional collaborative networks between faculty associated with the search. Recent Activity shows the most recent publications and grants associated with the search. Results can be downloaded in a CSV file by clicking the download icon located in the top left of the table:. The results table can be expanded by clicking the expand icon located in the top left of the table:. The result set can be further refined by using the "search within results" search bar located on the top right of the results.

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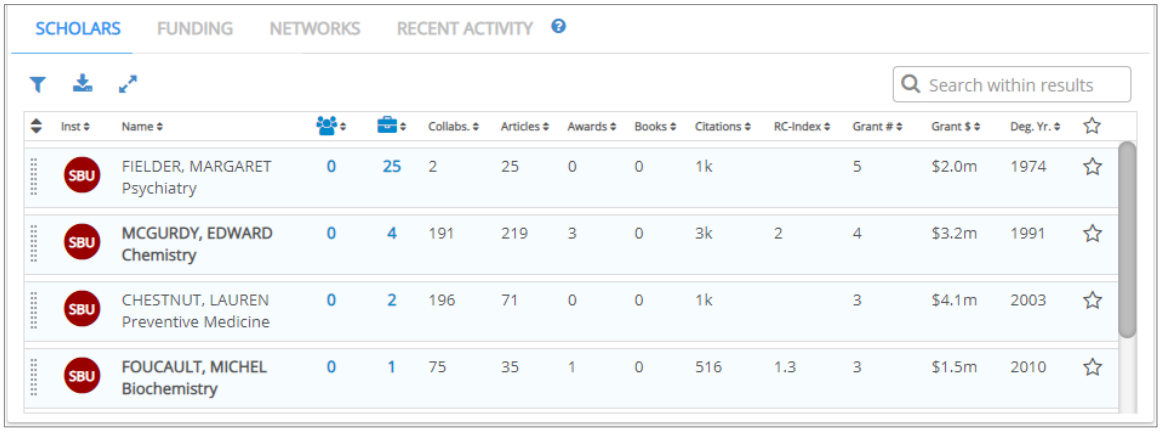
Scholars

The Scholars tab lists up to 200 faculty entries that can be filtered by discipline by clicking the funnel icon:. The following is shown for each scholar in the results set:

- Current Institution
- Faculty Name and departmental affiliation
- Number of collaborators with collaborations related to the search
- Number of works related to the search
- Number of total Collaborations (co-authored articles and grant co-pi's)
- Number of total Articles
- Number of total Awards
- Number of total Books
- Number of total Citations
- Recent Citation Index *
- Number of total Grants
- Total Grant Dollars
- Year of Terminal Degree

* The H-Index is calculated by first sorting a faculty member's publications in order of decreasing citations. The sorted publications are given labels from 1 to n, where the faculty member has n publications. The last label for which the number of citations is greater than or equal to the label is the faculty member's H-Index. We calculate a recent H-Index, or RH-Index, in the same manner using citations to publications over the last 7 calendar years. We then take z-scores for this metric within each grouping of discipline and faculty rank, to obtain the Recent Citations Index (RC-Index). The RC-Index for a faculty member having multiple discipline affiliations is the average of their discipline level RC-Indices. A faculty member without any known discipline affiliations or faculty rank will not have an RC-Index.



Faculty Profile

Clicking on an individual's name in the returned faculty names brings up the individual's profile. A researcher's profile includes the following displays:

Works
Timeline
Related Terms and people
Collaborations
Suggested Funding
Suggested Honorific Awards

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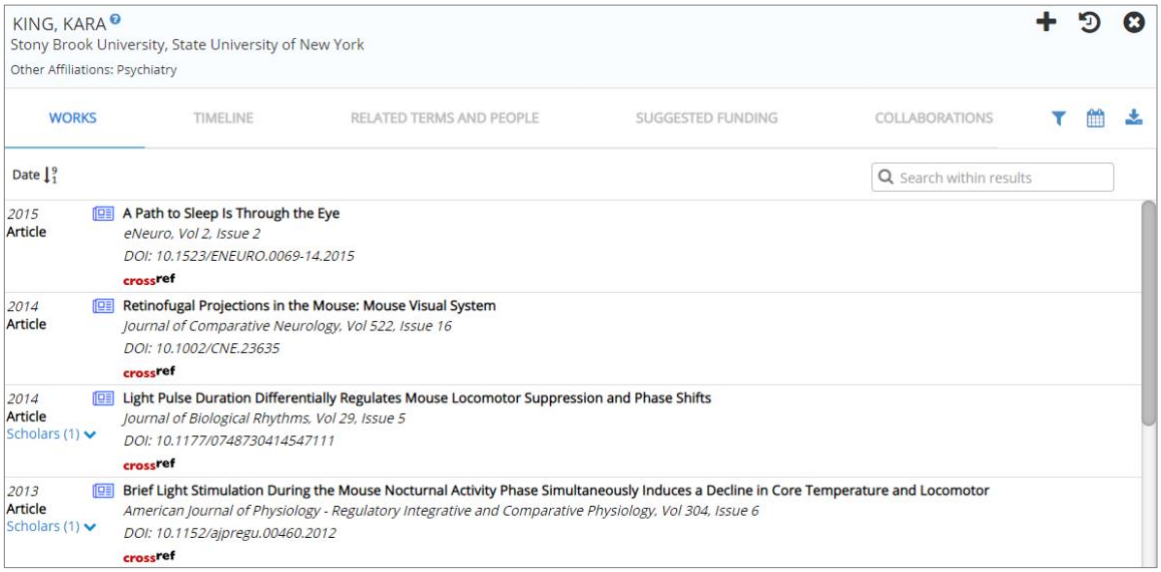
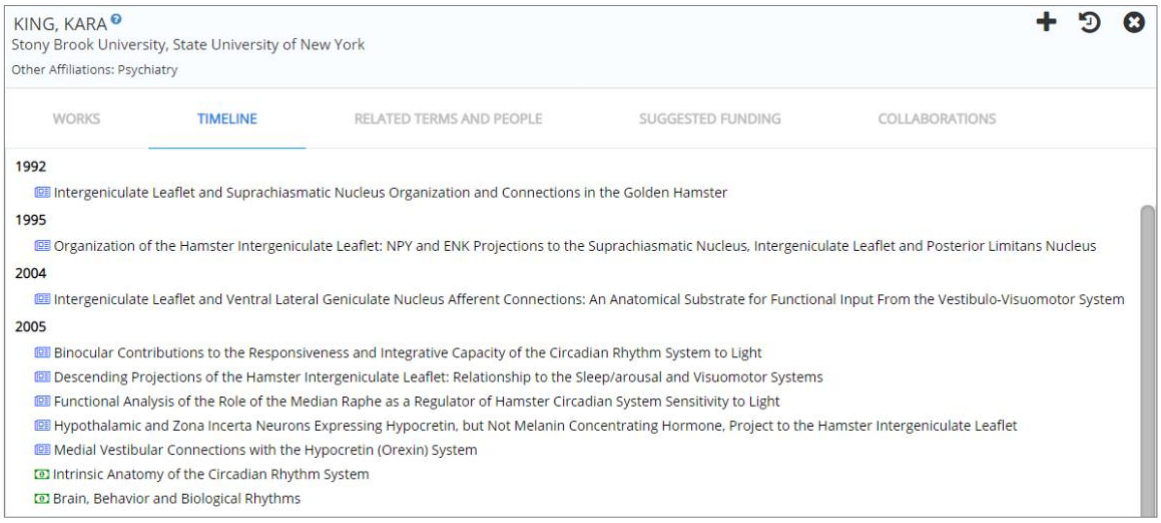
Works



Provides a complete listing of that individual's research activity. Works includes journal articles, grants, awards, conference proceedings and books.

Timeline



Presents the individual's research activity in chronological order.

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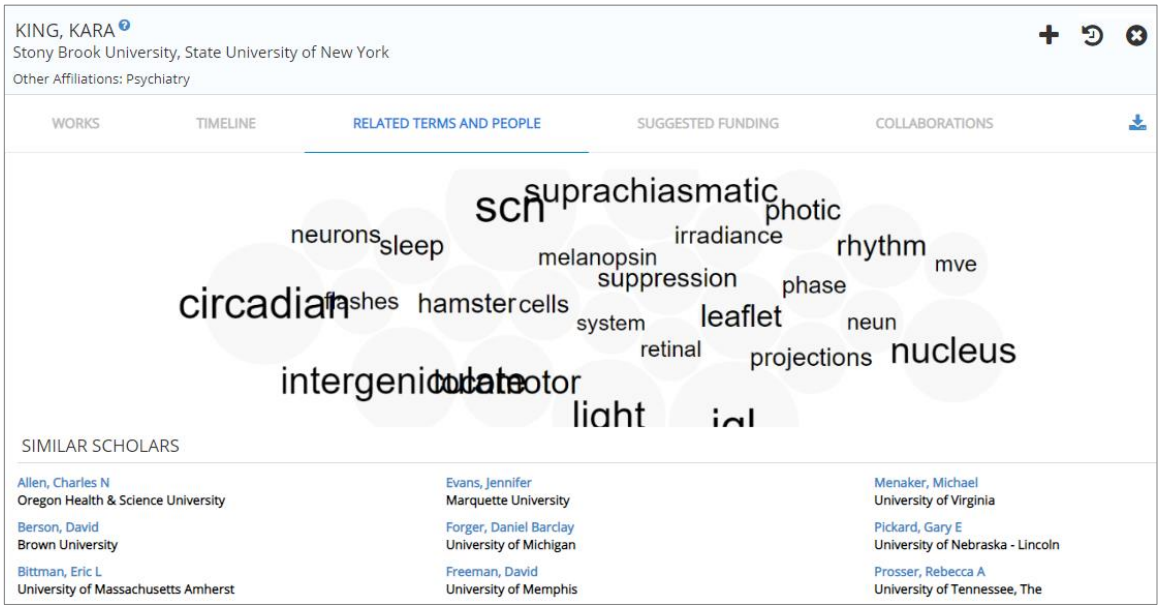
Related Terms and People

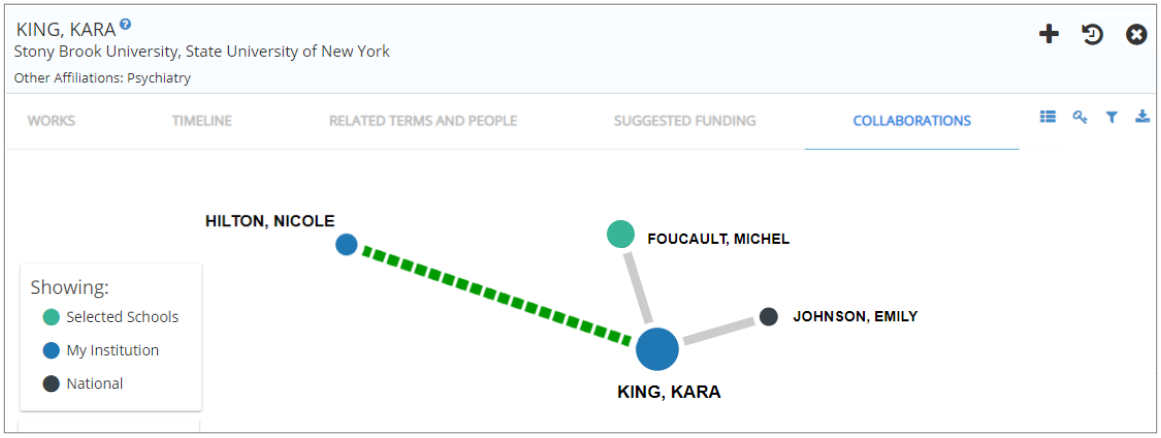


This view presents Research Terms: the universe of associated terms regarding that individual's research in this area, Similar Scholars: individuals working in the same area of inquiry.

- Research Terms provides the user with more conceptual avenues to fully explore research that is being conducted in the area and its cognate topics. This resource allows users to cast as wide a net as they wish.
- Similar Scholars lists individuals working in the same area of inquiry and can be used as the first step in identifying possible candidates for a research team.

Collaborations

Presents the entire universe of connections of that individual to other faculty through co-authored journal articles and co-PI grant collaborations, both at their home institution and nationally. Blue nodes indicate collaborations within the scholar's home institution, black nodes indicate collaborations outside of the scholar's home institution. When a specific set of institutions have been selected in advanced filters, scholars from those institutions appear with green nodes. Users can zoom the view of those connections by scrolling the mouse wheel.



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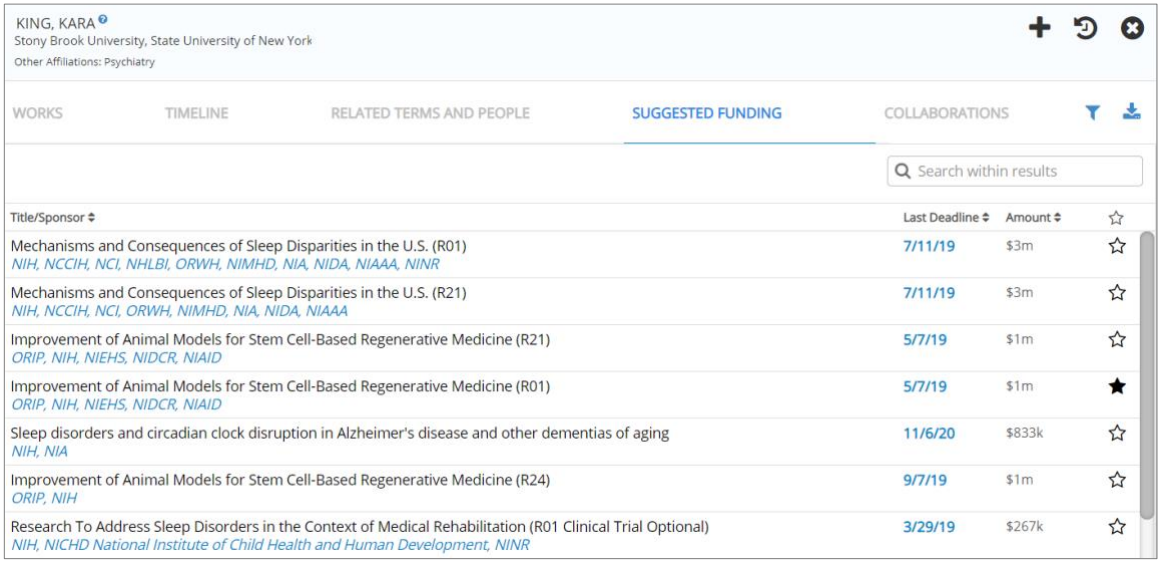
Suggested Funding

A list of available funding opportunities for the selected scholar. Opportunities are identified by indexing the funding database against the scholar's research terms.



Suggested Honorific Awards

The Suggested Awards tool presents, for a given scholar, a list of awards for which the scholar could potentially be nominated. For a given scholar and award, a Suitability Index is calculated by comparing characteristics of the scholar with those of previous awardees. These characteristics include comparative benchmarks, previous co-authorship, academic age at the time of receiving the award, institution and academic unit affiliations, and scholarly research similarity. Due to the dependence on comparative benchmarks, scholars that are not associated with either a department or program will not have any suggested awards.

The initial view when navigating to Suggested Honorific Awards displays all awards where the scholar has a Suitability Index equal to or greater than 0.6. The view displays, from left to right:

- Suitability Index (SI)
- Award Name
- Granting Organization
- Data related to the selected scholar that may support selection as a nominator or letter writer:
    - Number of previous awardees at the same Institution
    - Number of previous awardees having a common academic unit affiliation
    - Number of previous awardees with co-authored scholarly works
- NRC prestige classification of the award
- Award nomination opening month (where available)
- Award nomination closing month (where available)

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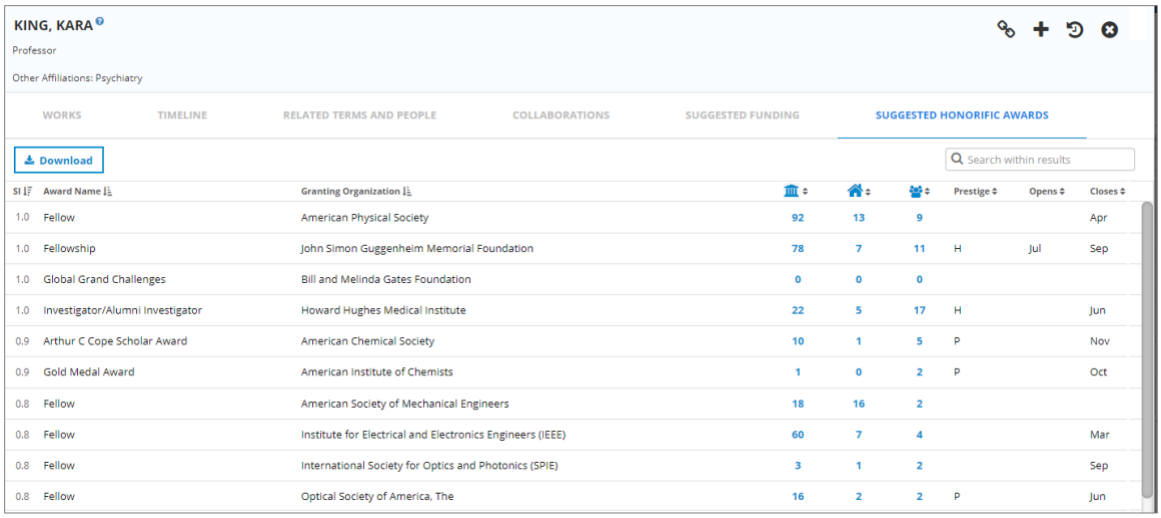
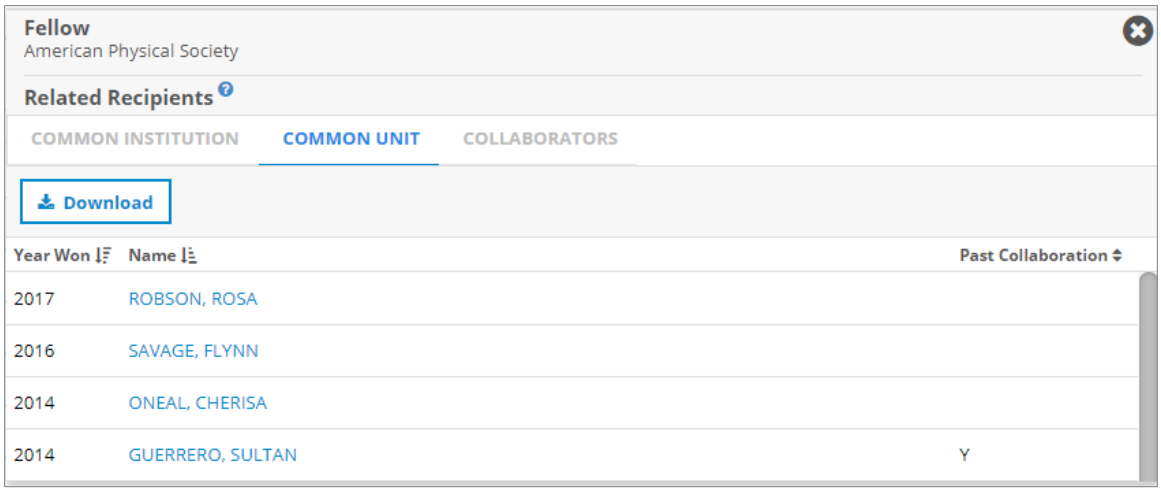


The three entries above for “Number of previous awardees…” are displayed in blue text and are clickable. Clicking on any of them will open the Related Recipients dialog box and display the corresponding data set. This dialog box shows, for the selected scholar and award, the previous awardees that are affiliated with the same Institution (Common Institution), that are affiliated with the same academic unit (Common Unit), and that are previous collaborators. Note that “previous collaborators” are defined as having an article, conference proceeding, grant, or book collaboration with the selected scholar. The scholar profiles of previous awardees can be viewed by clicking their name.



Clicking anywhere else within an award entry will transition to the Award Profile. The Award Profile contains an overview of the award, a listing of up to the 100 most recent recipients, and an analysis of select previous awardee characteristics.

The Overview tab shows a description of the award and any eligibility requirements, along with the opening and closing months for nominations, the month that new awardees are announced, the periodicity of the award, any associated monetary amount, and a link to the award website.

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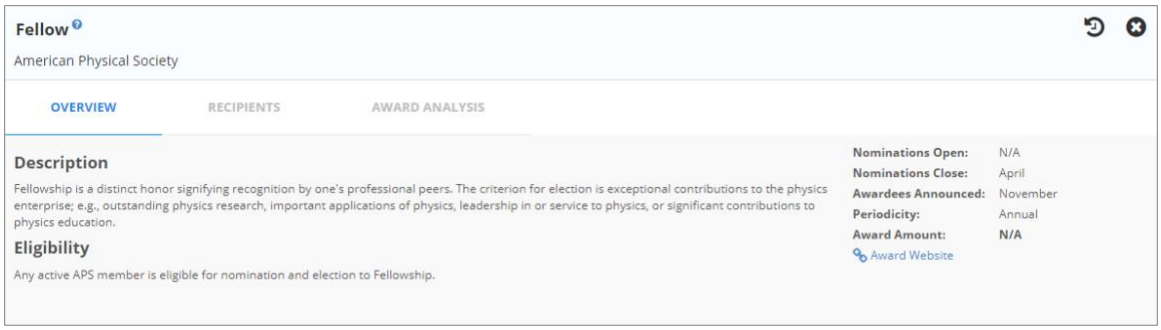
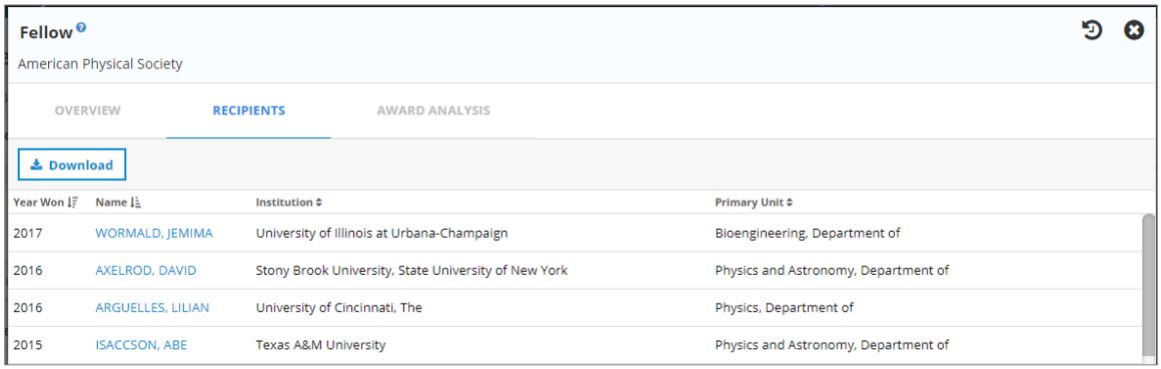
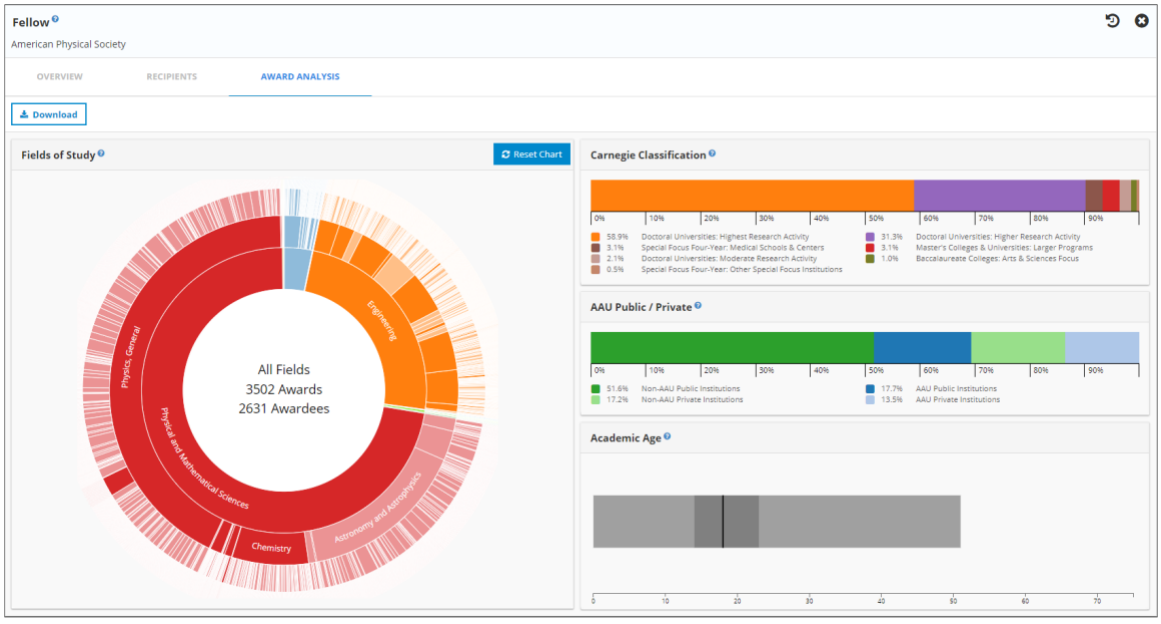


The Recipients tab shows up to the 100 most recent recipients of the award. Specifically, it displays the year won, name, institution, and primary unit affiliation for the awardees. Clicking anywhere within an entry will navigate to the corresponding scholar profile.



The Award Analysis tab contains a wealth of information for certain characteristics of all previous awardees. The view is comprised of the fields of study sunburst, the Carnegie classification and AAU public / private bar charts, and the academic age box plot distribution.



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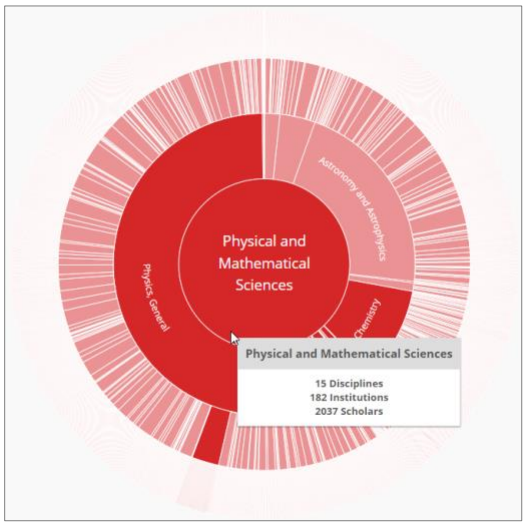
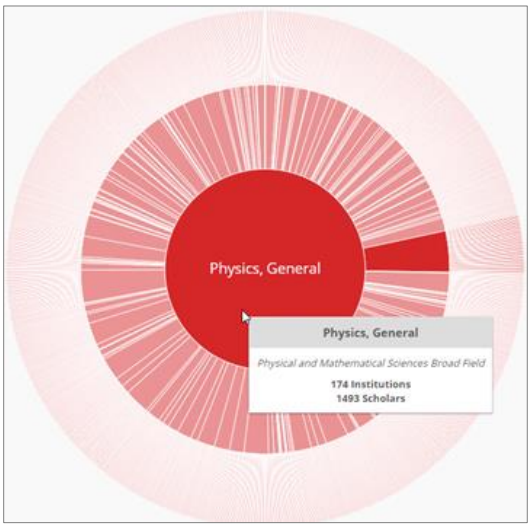
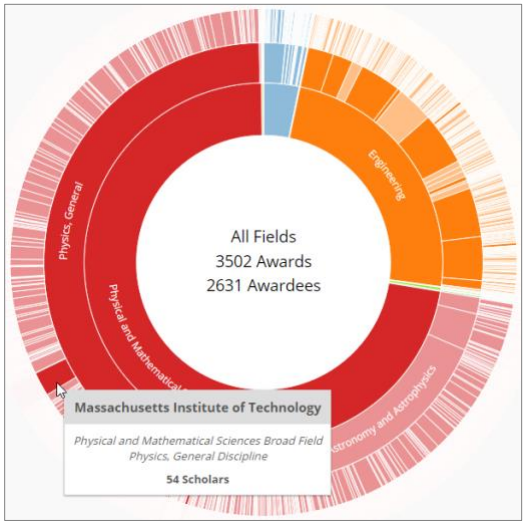
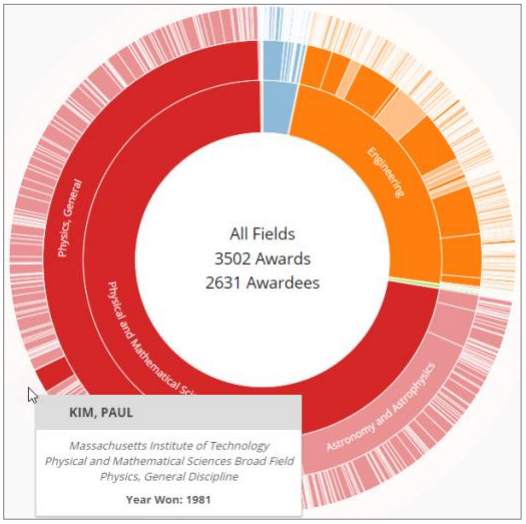
The fields of study sunburst is an interactive graphic showing the broad field, discipline, and institution affiliations of previous awardees. The default, fully expanded view displays data for all fields of study, and a count of the number of awardees for the selected award. Moving out from the center there are 4 rings: broad fields, disciplines, institutions, and scholars. Clicking on any of the affiliation section will contract the view so that the remaining outer rings are relevant to the selected section. For instance, clicking on a particular broad field will contract the graphic to show disciplines, institutions, and awardees that are affiliated with the selected broad field. Clicking on the center of a contracted view will expand the graphic by one layer, while clicking on the Reset Chart button will revert the graphic to its default state. Hovering over a segment will display a tool tip, showing the inner ring path to the segment (*italics*) and metadata for outer rings related to the segment (**bold**).









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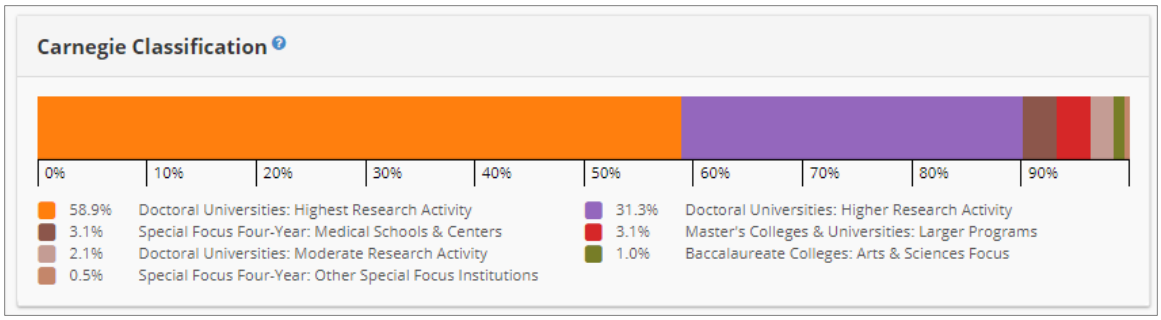
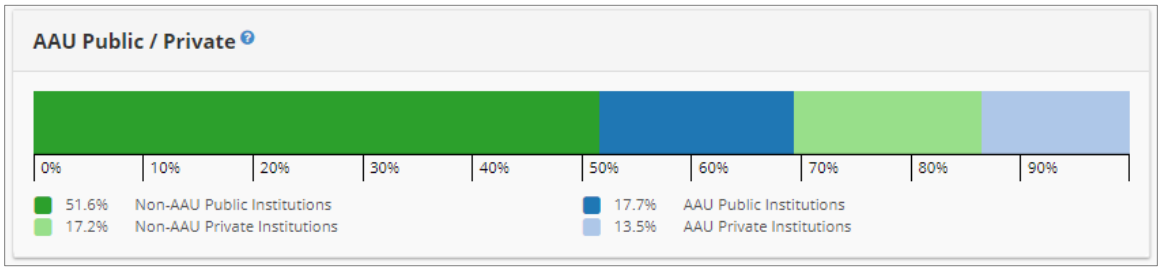
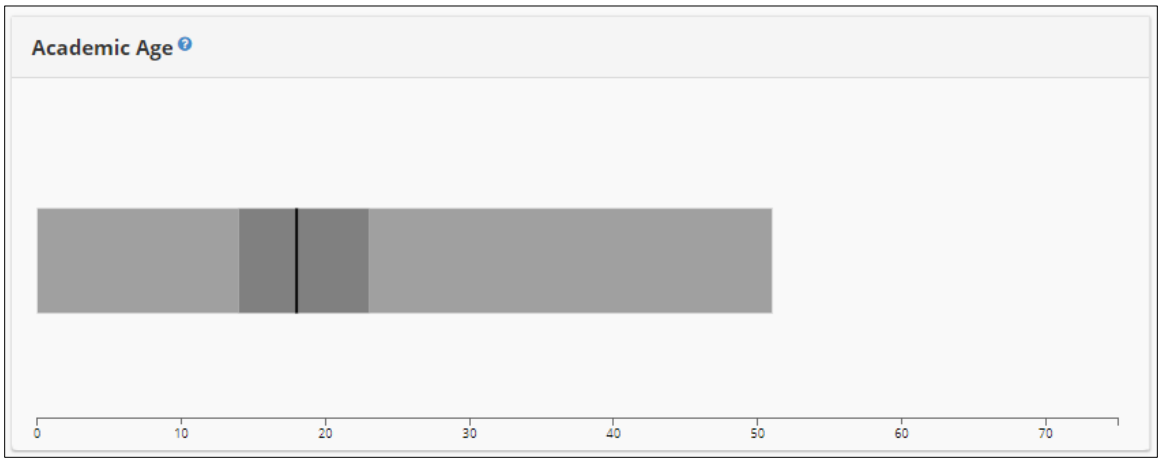
The Carnegie Classification bar chart shows the percentage of previous awardees that currently reside at institutions having a given Carnegie Classification.



The AAU Public / Private bar chart shows the percentage of previous awardees that currently reside at institutions having a given combination of AAU Membership and Public / Private Control.



The Academic Age box plot shows the distribution of the academic ages of previous awardees at the time they received the award.



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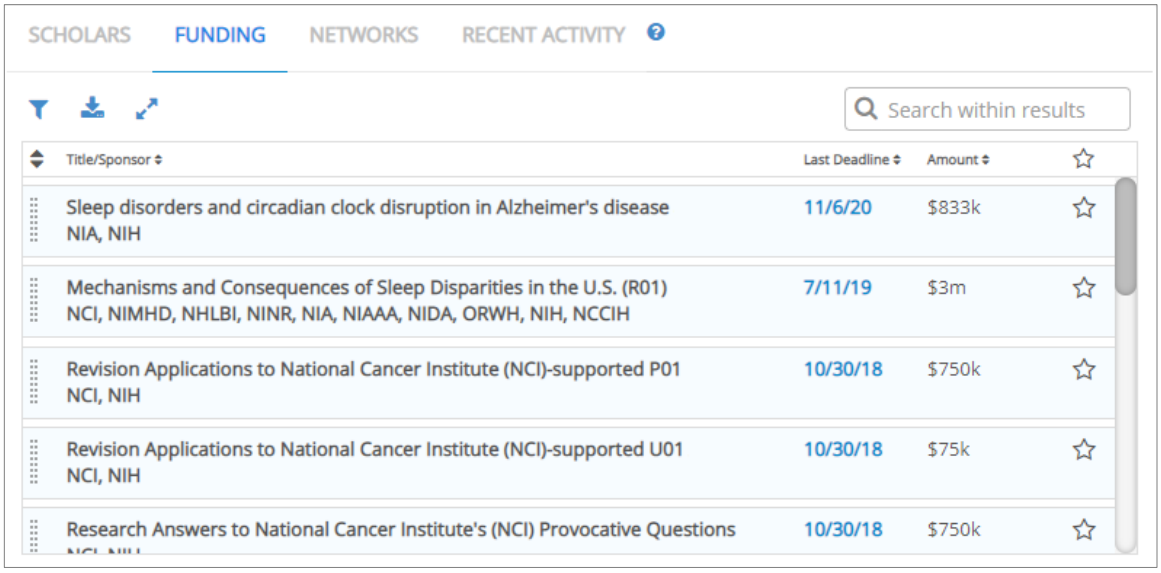
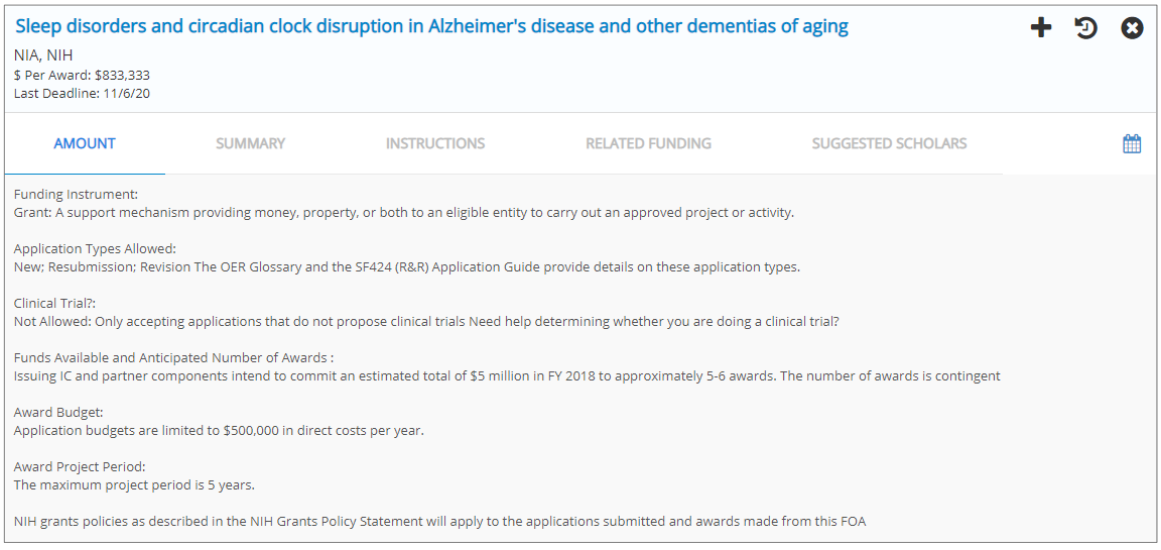
Funding

The Funding tab lists up to 200 opportunities sorted by date. Records include grant title, last deadline, sponsors, and are clickable to display a funding profile. Funding opportunities can be filtered by sponsor, sponsor type, submission type, category, status, and grant type by clicking the funnel icon: .



Clicking on a funding opportunity in the Funding Results brings up the opportunity's profile. The title is a link to the external funding opportunity site, and the header also contains the sponsor(s), dollars per award, and last deadline. The calendar icon on the far right allows the user to export the next upcoming or last deadline to the calendar of their choice. The funding profile contains the following sections:

Amount



Provides information related to the dollar amount and number of grants.

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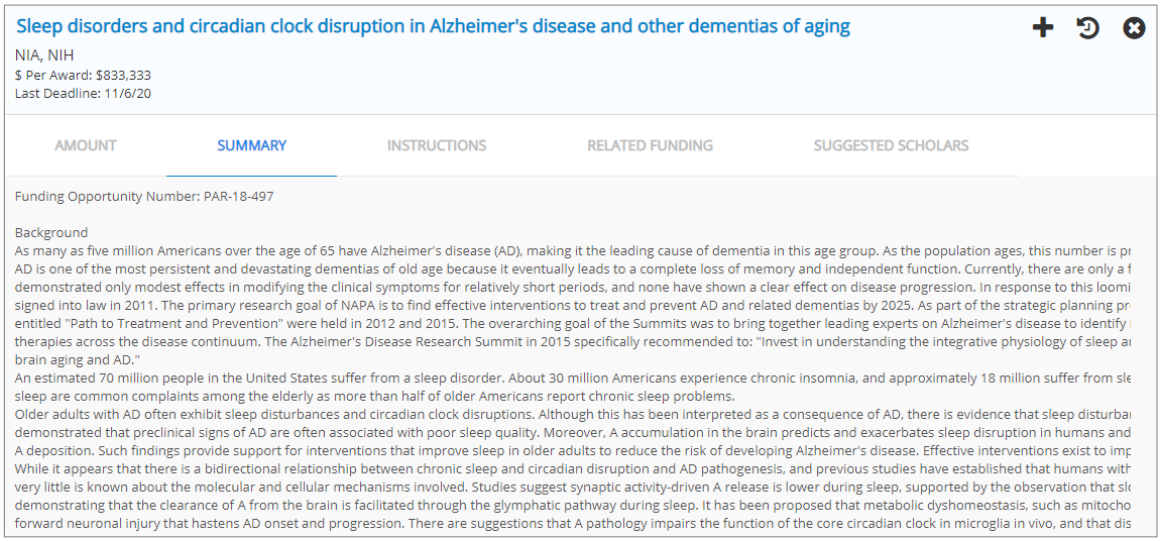
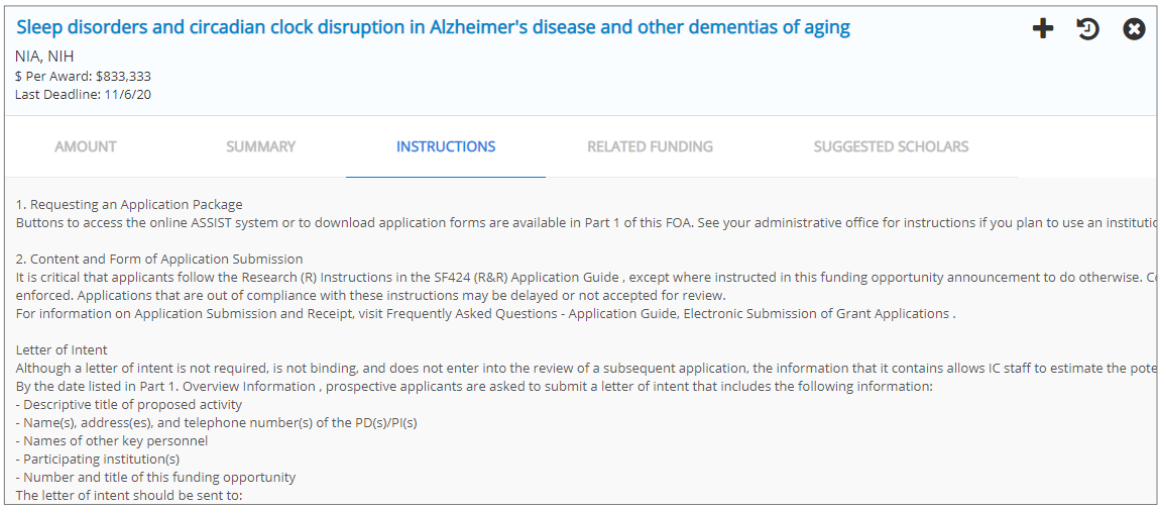
Summary



Contains the description of the grant, such as background or research objectives. Any email addresses or web links appear as blue, boldface hyperlinks.

Instructions



Details the application process for the funding opportunity. As with the Summary section, any email addresses or web links appear in blue boldface.

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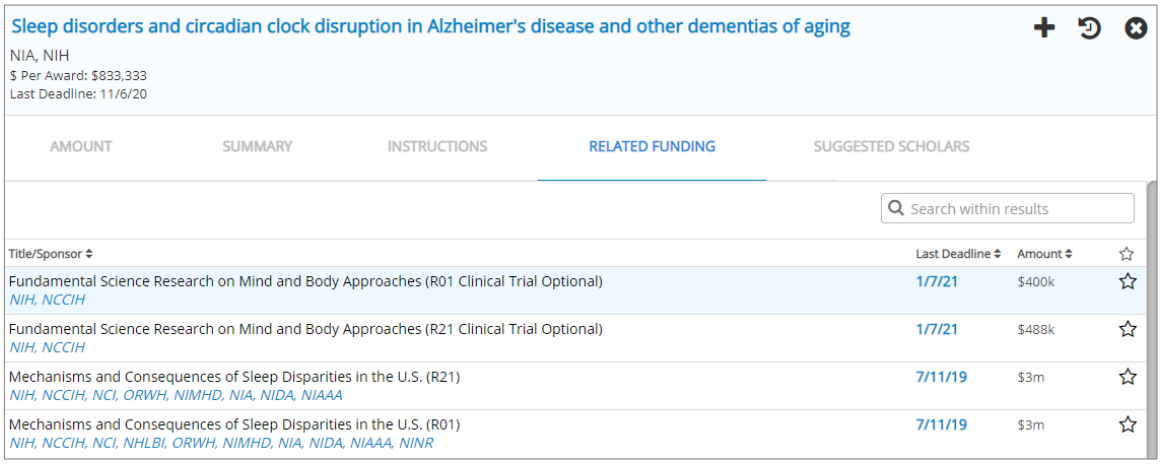
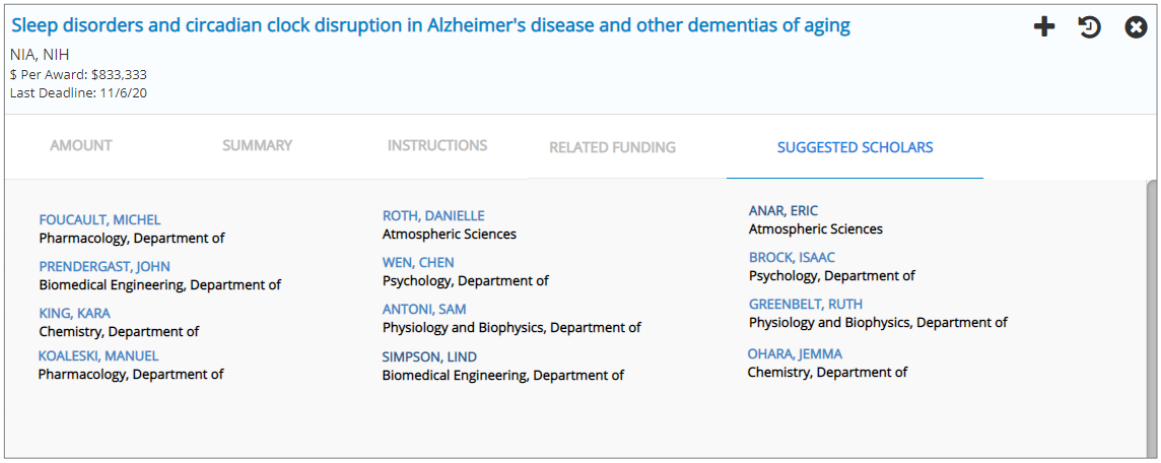
Related Funding



This section provides a selection of funding opportunities that are related to the selected opportunity. The relation is determined through analysis of the text which appears in the Summary sections. Each opportunity can be exported to a calendar through the date link in the Last Deadline column or viewed by clicking on the entry.

Suggested Scholars

Suggested Scholars lists individuals working in the same area of inquiry and can be used as the first step in identifying possible candidates for a research team.



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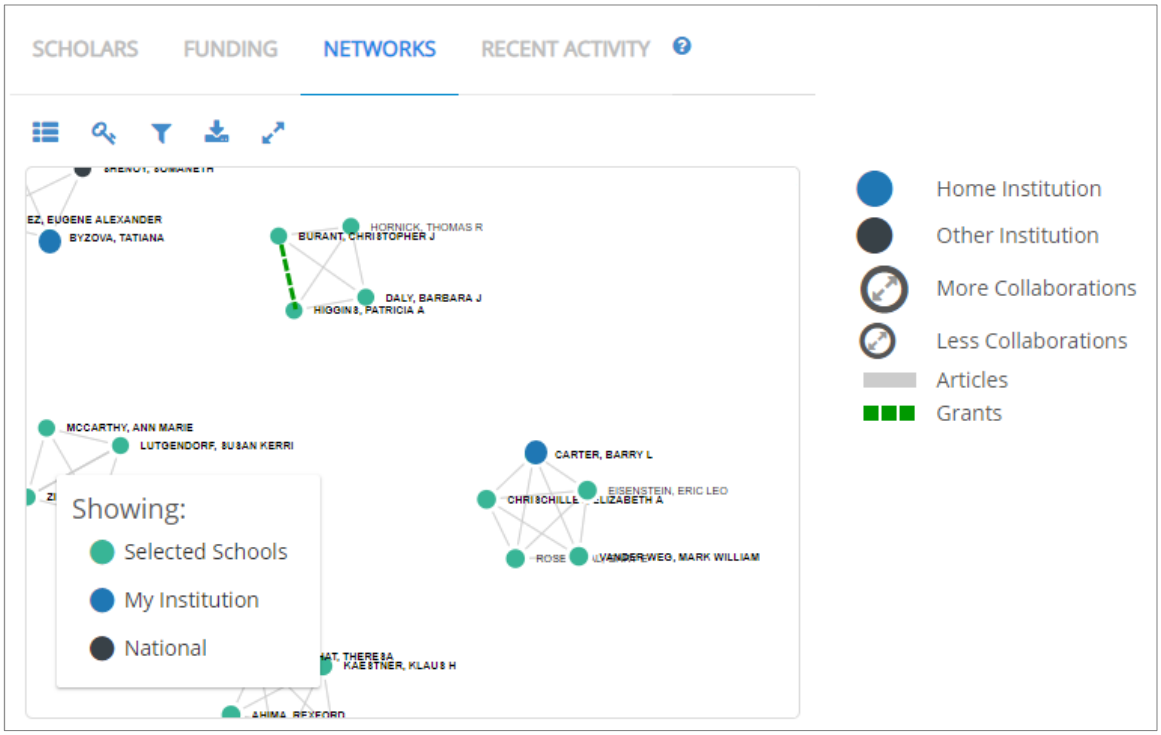
Networks

The Networks map presents established research networks focused on the searched research terms.

Bottom left contains a legend box with clickable options for “My Institution”, “National”, and “Selected Schools” (when such a selection has been made in the filters). Clicking an option removes that type of faculty from the graphic and grays the option. Clicking again adds them back.



The ‘Key” icon provides a legend of conventions used to indicate “home institution,” “other institutions,” level of collaboration and relationships based on grants or co-authoring journal articles.

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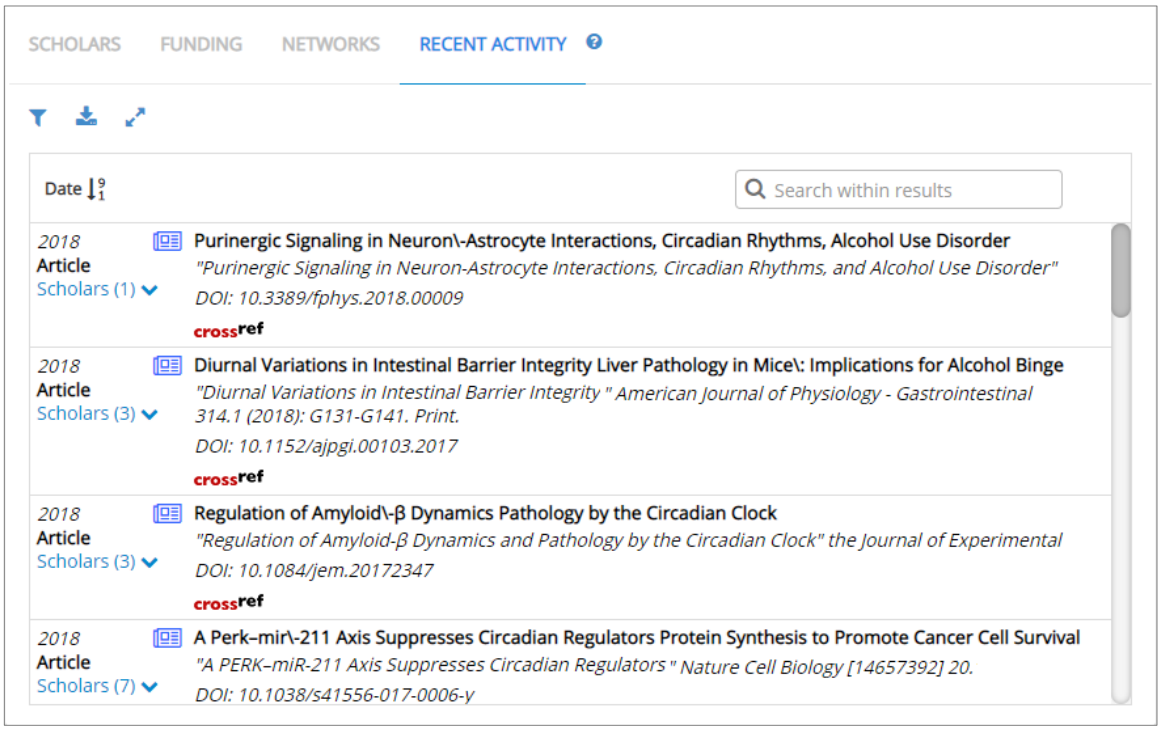
Recent Activity

Recent Activity provides a list of recent articles, conference proceedings and federal grants focused on the research terms. Activity is listed chronologically. The user can focus on specific activities through “Filter on Work Type.”

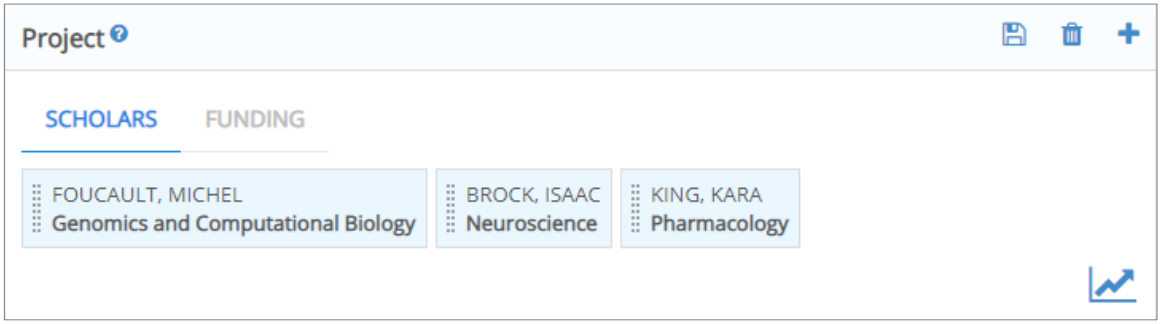


Project

The Project feature allows users to collect scholars and funding opportunities, save them for later viewing, analyze the virtual team of scholars, and view suggested funding opportunities for the team.

Build a Team

Users can drag and drop scholars into the Project section.



View Team Analysis

Users can view the aggregate activity of the new team by clicking the View Analysis prompt in the right-hand corner of the Project space. Select researchers to add to a team by dragging and

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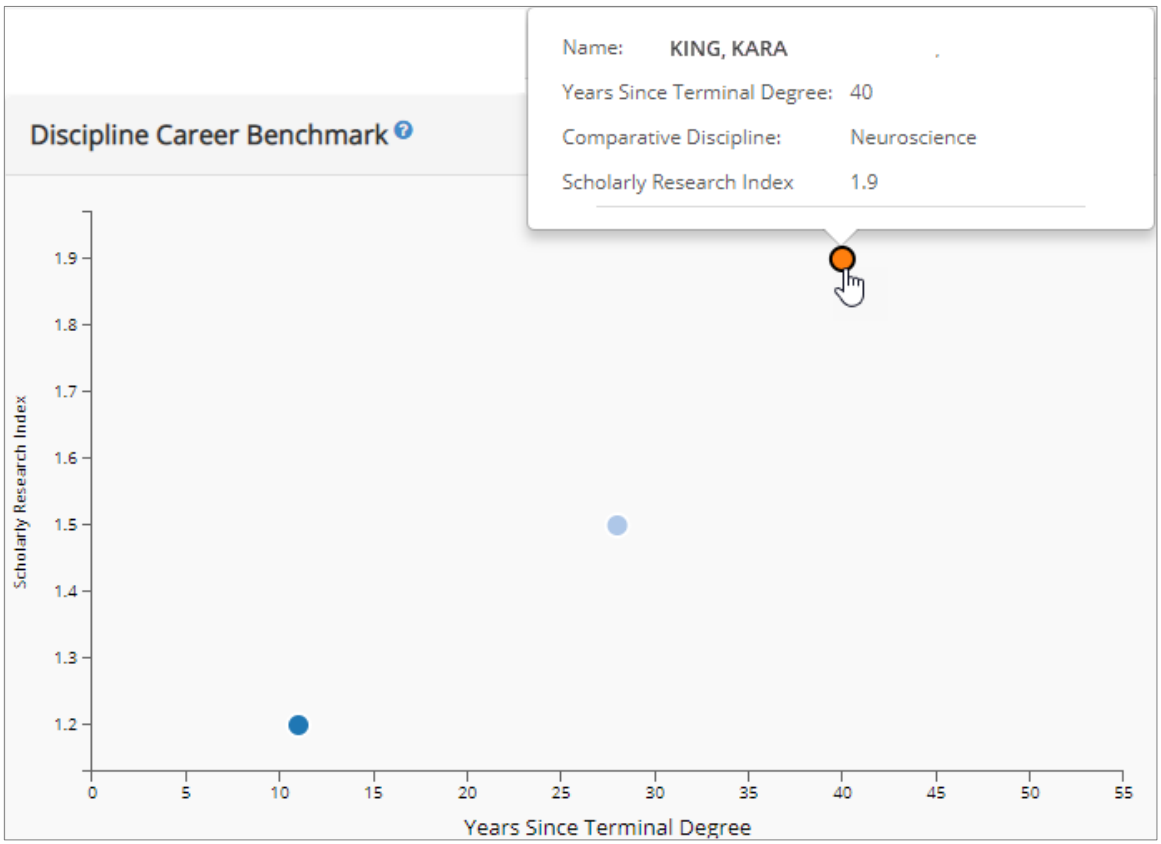
dropping their row from the results table into the Project box below. Once you have added two or more team members to the project, a team analysis may be conducted.

The Team Analysis screen provides users with four separate displays to view individual and aggregate contributions to the team; career progression, intra-team collaborations and expertise intersection.

Discipline Career Progression

The Team Analysis Career Progression chart demonstrates each team member's average trend in research activity relative to their own discipline. The progression is displayed per the selected variable chosen from the dropdown menu on the right. Dots represent team members and are color coded by discipline. The Y-axis represents the score for the variable and the X-axis represents years since terminal degree. Hovering on a dot provides the team member's name, years since terminal degree and SRI.



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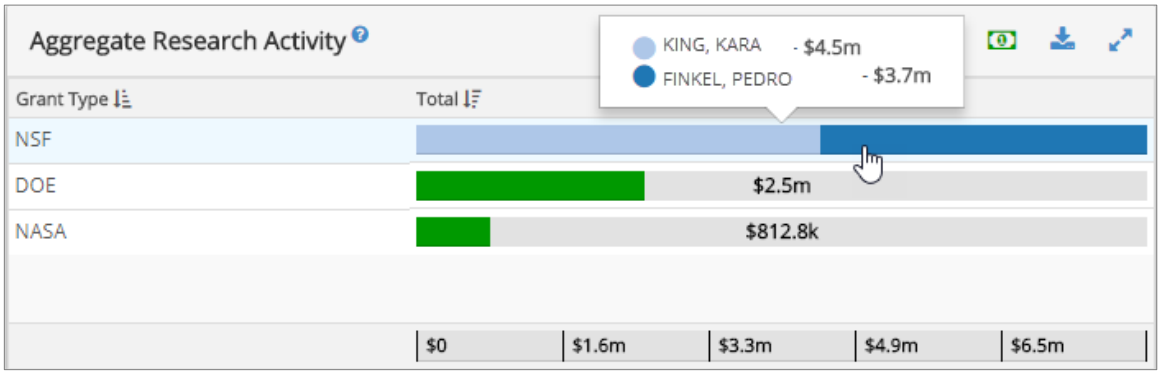
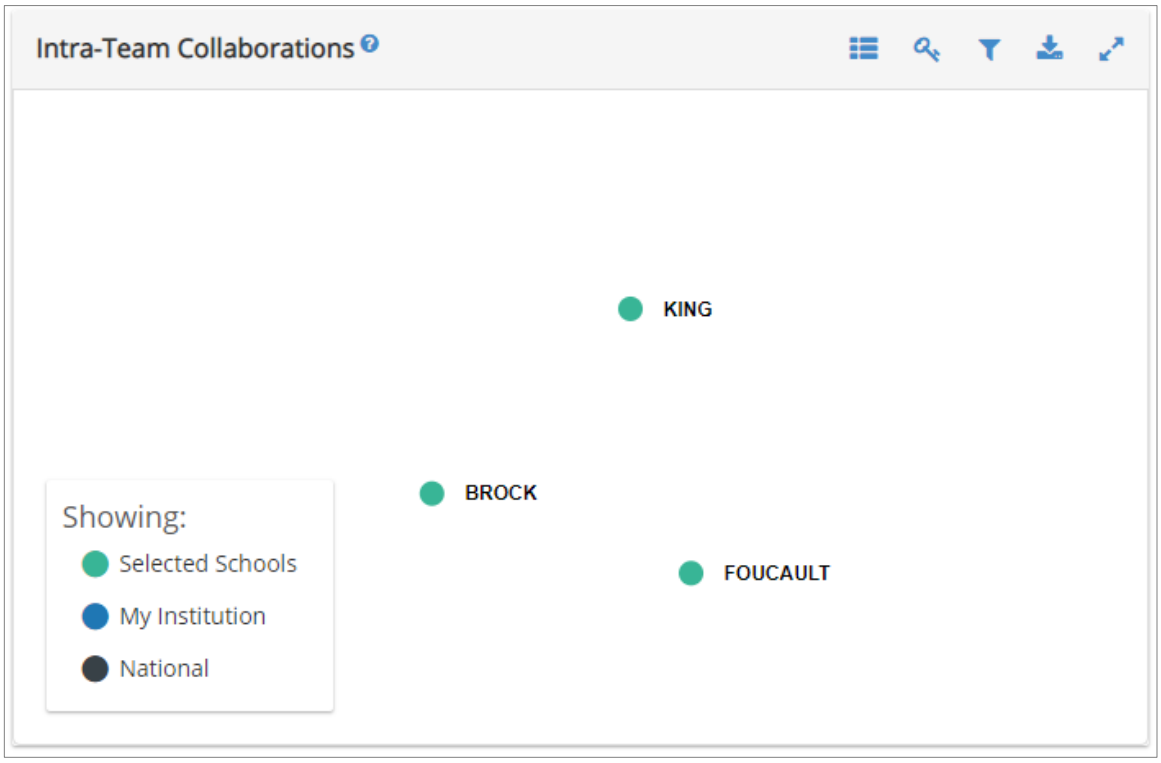
Aggregate Research Activity



Displays the team's aggregated research activity for grant dollars, articles, awards, citations, and number grants. Hovering over a bar displays the individual contributions of each team member. Bars are color-coded by team member discipline (as indicated in the team roster in the top-left of the analysis screen).

Intra-Team Collaboration



Displays previous co-authorship and co-PI collaboration among members of the team. Articles are represented by a silver connecting line, while a green line indicates the individuals were co-PIs on a grant. The size of a team member's dot indicates that person's overall volume of collaborations, while the color of the dot indicates the person's discipline (as indicated in the team roster in the top-left of the analysis screen).

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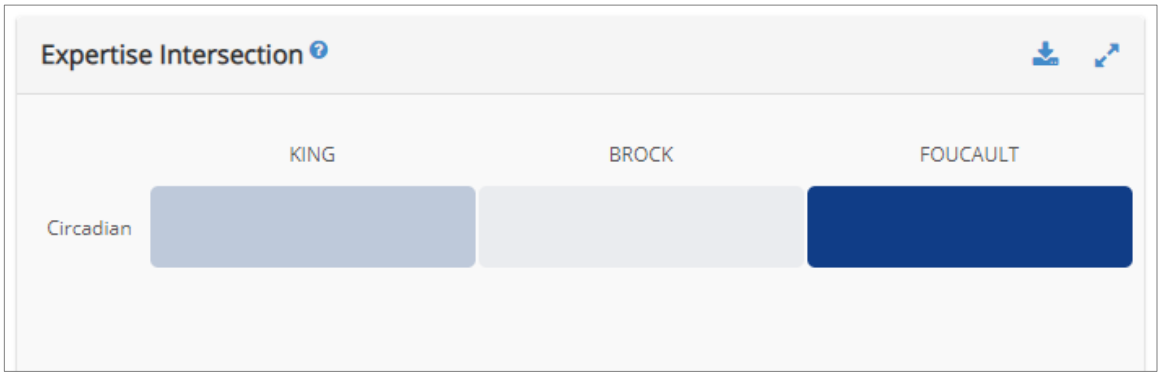
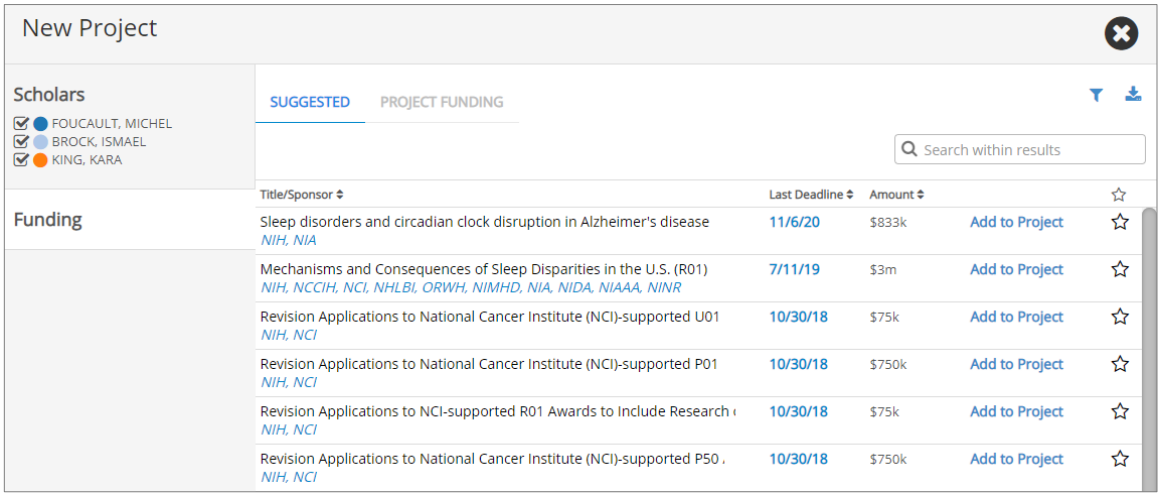
Expertise Intersection



The Expertise Intersection displays the shared occurrence of key research terms in the publications of the team members. Darker cells indicate a higher number of occurrences of the word in the row for the team member in the column. Hovering over a cell will show the total number of occurrences for the specific faculty member, the highest number of occurrences among the team, and the total occurrences for the entire team.

Funding Opportunities

Team Analysis Funding presents a tabbed view of “Suggested” and “Project Funding.” Project Funding contains funding opportunities that have been added to the Project by the user Suggested Funding contains funding opportunities targeted at the overall research of the Project Scholars. Each opportunity can be added to the Project Funding. Items in Project Funding will not appear in the Suggested list.



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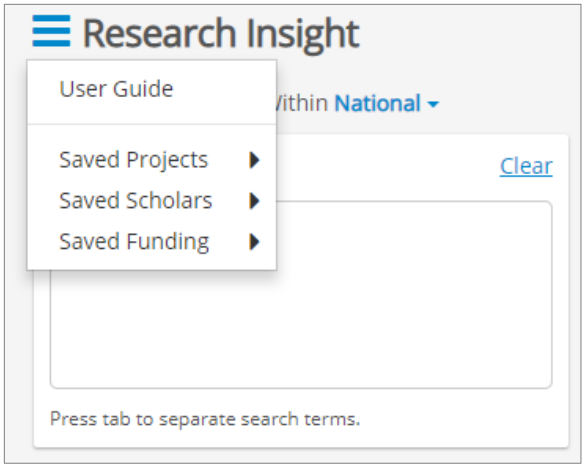
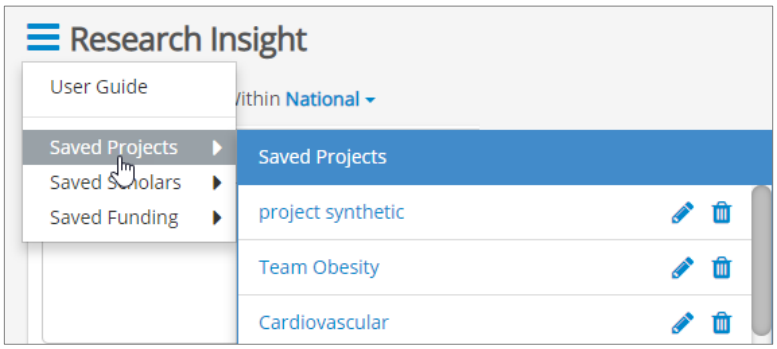
Menu

The main Research Insight menu is accessed by clicking the three-lined icon to the left of the Research Insight title.



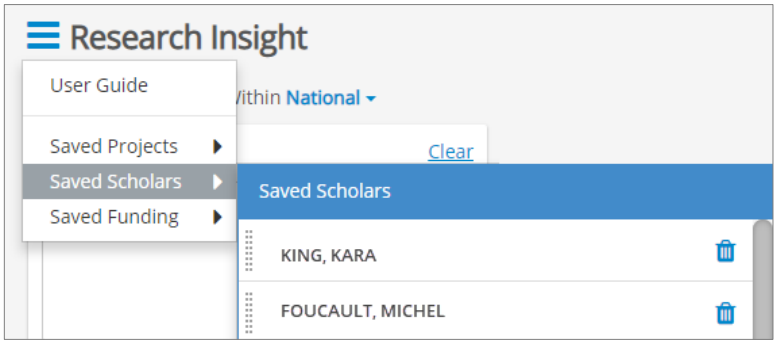
Once clicked, the menu lists the following options:

Saved Projects



Displays a list of previously saved projects. Projects may be deleted, and project titles may be edited from this menu.

Saved Scholars



Displays a list of previously saved scholars. From this menu, users may drag and drop saved scholars into the current portfolio and saved scholars may be removed from the saved scholar list.

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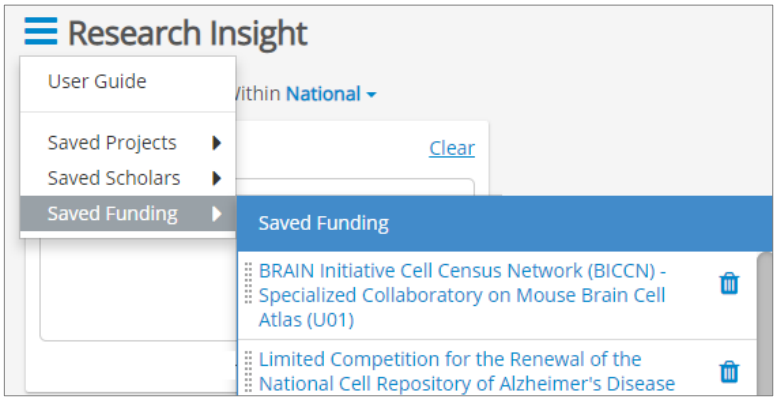
Saved Funding



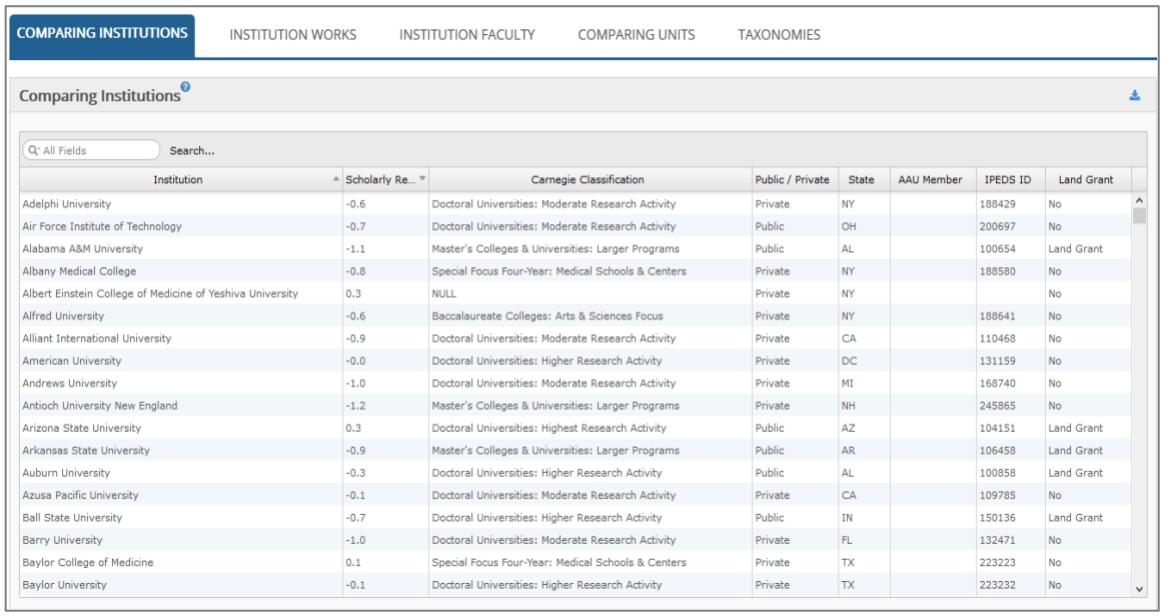
Displays a list of previously saved funding opportunities. From this menu, users may drag and drop saved funding opportunities into the current portfolio and saved opportunities may be removed from the saved funding opportunity list.

Institution

The Institution section of the Portal contains five separate pages; **Comparing Institutions, Institution Works**, **Institution Faculty**, **Comparing Units**, and **Taxonomies.** Data from all pages are downloadable.

Comparing Institutions

Comparing Institutions lists all institutions in the database. Columns displayed are: Institution, Scholarly Research Index (the comparative index score within the Academic Analytics data expressing the comparative research activity of individual faculty, departments, programs or institutions), Carnegie Classification, Public/Private, State, AAU Member, IPEDS ID and Land Grant status.



Institution	Scholarly Re...	Carnegie Classification	Public / Private	State	AAU Member	IPEDS ID	Land Grant
Adelphi University	-0.6	Doctoral Universities: Moderate Research Activity	Private	NY		188429	No
Air Force Institute of Technology	-0.7	Doctoral Universities: Moderate Research Activity	Public	OH		200697	No
Alabama A&M University	-1.1	Master's Colleges & Universities: Larger Programs	Public	AL		100654	Land Grant
Albany Medical College	-0.8	Special Focus Four-Year: Medical Schools & Centers	Private	NY		188580	No
Albert Einstein College of Medicine of Yeshiva University	0.3	NULL	Private	NY			No
Alfred University	-0.6	Baccalaureate Colleges: Arts & Sciences Focus	Private	NY		188641	No
Alliant International University	-0.9	Doctoral Universities: Moderate Research Activity	Private	CA		110468	No
American University	-0.0	Doctoral Universities: Higher Research Activity	Private	DC		131159	No
Andrews University	-1.0	Doctoral Universities: Moderate Research Activity	Private	MI		168740	No
Antioch University New England	-1.2	Master's Colleges & Universities: Larger Programs	Private	NH		245865	No
Arizona State University	0.3	Doctoral Universities: Highest Research Activity	Public	AZ		104151	Land Grant
Arkansas State University	-0.9	Master's Colleges & Universities: Larger Programs	Public	AR		106458	Land Grant
Auburn University	-0.3	Doctoral Universities: Higher Research Activity	Public	AL		100858	Land Grant
Azusa Pacific University	-0.1	Doctoral Universities: Moderate Research Activity	Private	CA		109785	No
Ball State University	-0.7	Doctoral Universities: Higher Research Activity	Public	IN		150136	Land Grant
Barry University	-1.0	Doctoral Universities: Moderate Research Activity	Private	FL		132471	No
Baylor College of Medicine	0.1	Special Focus Four-Year: Medical Schools & Centers	Private	TX		223223	No
Baylor University	-0.1	Doctoral Universities: Higher Research Activity	Private	TX		223232	No

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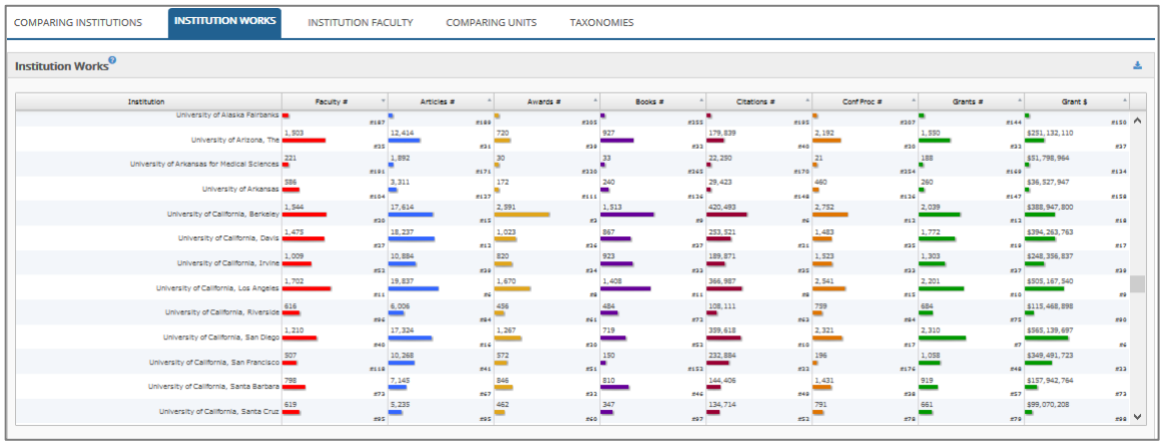
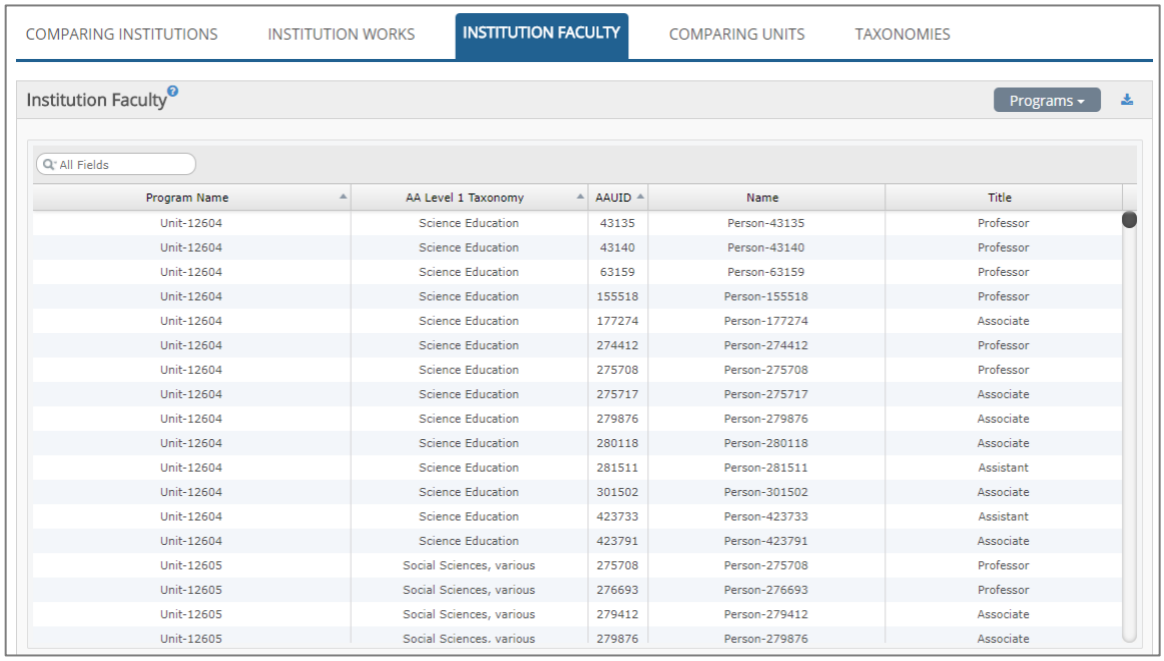
Institution Works

The Institution Works page has been updated to show critical counts for each institution in the data: Number of Faculty, Articles, Awards, Books, Citations, Conference Proceedings, Grants and Grant Dollars. The value of each data element and the national rank is shown for each institution. These numbers are shown within the context of all Ph.D. granting institutions in the United States.



Institution Faculty is the next tab on the page. Institution Faculty are presented through three views; Programs, Departments, and All. The drop-down menu in the upper right can be used to switch between views. The Programs display is the default display when you land on the page.



Program Name	AA Level 1 Taxonomy	AAUID	Name	Title
Unit-12604	Science Education	43135	Person-43135	Professor
Unit-12604	Science Education	43140	Person-43140	Professor
Unit-12604	Science Education	63159	Person-63159	Professor
Unit-12604	Science Education	155518	Person-155518	Professor
Unit-12604	Science Education	177274	Person-177274	Associate
Unit-12604	Science Education	274412	Person-274412	Professor
Unit-12604	Science Education	275708	Person-275708	Professor
Unit-12604	Science Education	275717	Person-275717	Associate
Unit-12604	Science Education	279876	Person-279876	Associate
Unit-12604	Science Education	280118	Person-280118	Associate
Unit-12604	Science Education	281511	Person-281511	Assistant
Unit-12604	Science Education	301502	Person-301502	Associate
Unit-12604	Science Education	423733	Person-423733	Assistant
Unit-12604	Science Education	423791	Person-423791	Associate
Unit-12605	Social Sciences, various	275708	Person-275708	Professor
Unit-12605	Social Sciences, various	276693	Person-276693	Professor
Unit-12605	Social Sciences, various	279412	Person-279412	Associate
Unit-12605	Social Sciences, various	279876	Person-279876	Associate

Under Programs and Departments, faculty are listed by: Unit Name, Academic Analytics Level 1 Taxonomic Classification, Academic Analytics Unique ID, Faculty Name, and Title.

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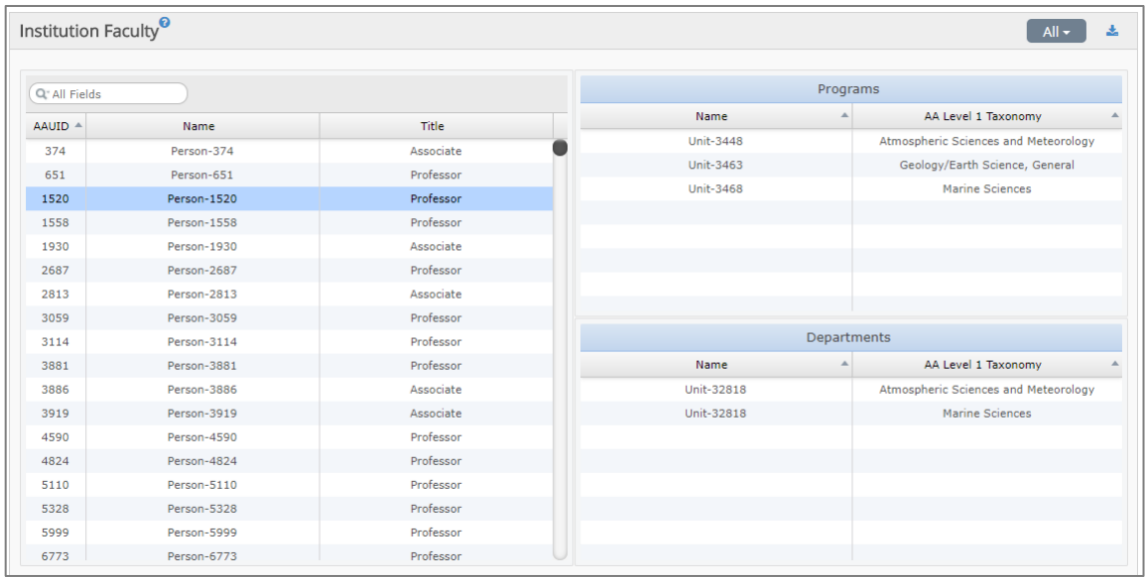
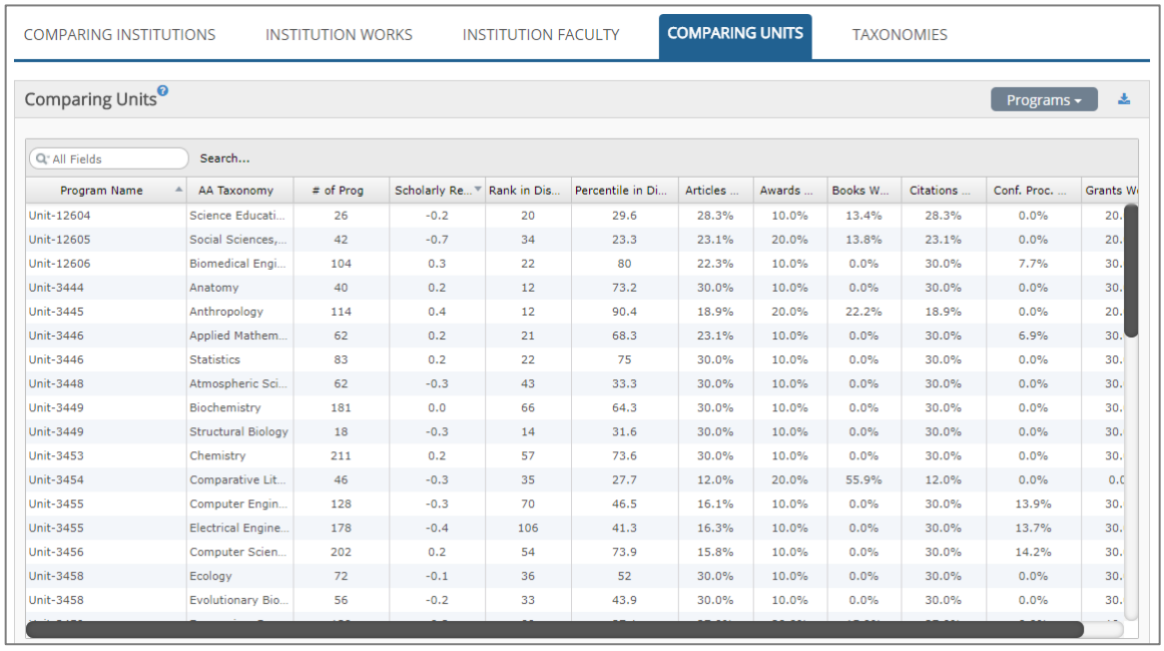
In the All view, faculty are listed by Academic Analytics Unique ID, Name, and Title. Program and Department identification boxes appear on the right side of the page. By clicking on an individual faculty member's name, that person's program and department affiliations and the Academic Analytics Level 1 Taxonomic classification for each unit will be displayed.



Comparing Units

Comparing Units presents comparative data on all programs and departments at the user's institution. Comparing Programs is the default display when you land on the page. Use the drop-down menu in the upper right to switch between views. Each view presents: Unit Name, Academic Analytics Level 1 Taxonomic Classification, Number of Units in the discipline nationally, Scholarly Research Index, SRI Rank and Percentile in the discipline, and the disciplinary weights applied to Articles, Awards, Books, Citations, Conference Proceedings, and Grants.



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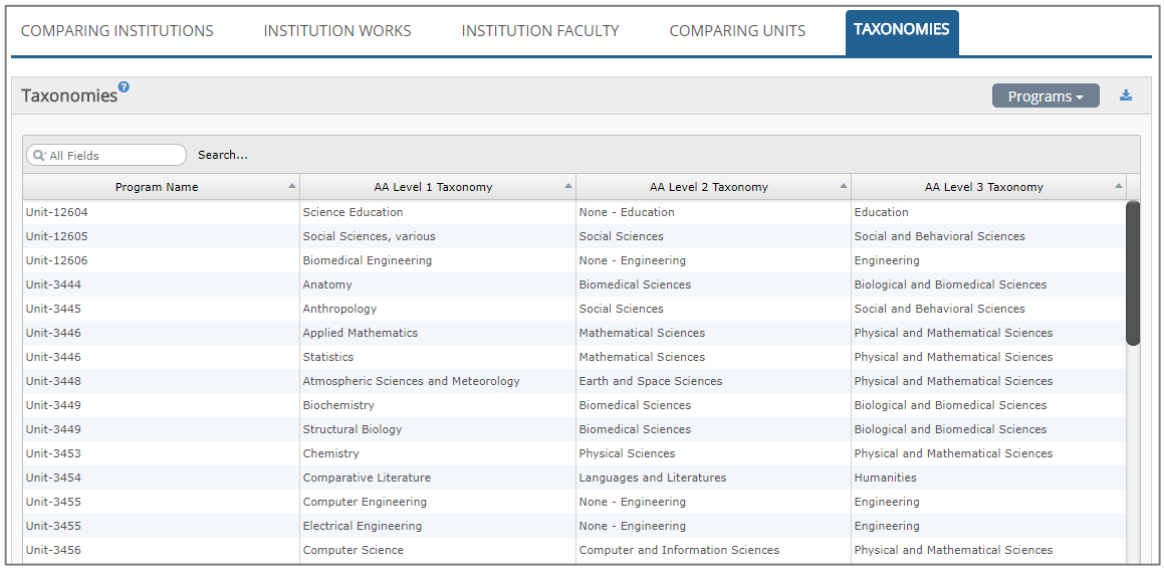
Taxonomies

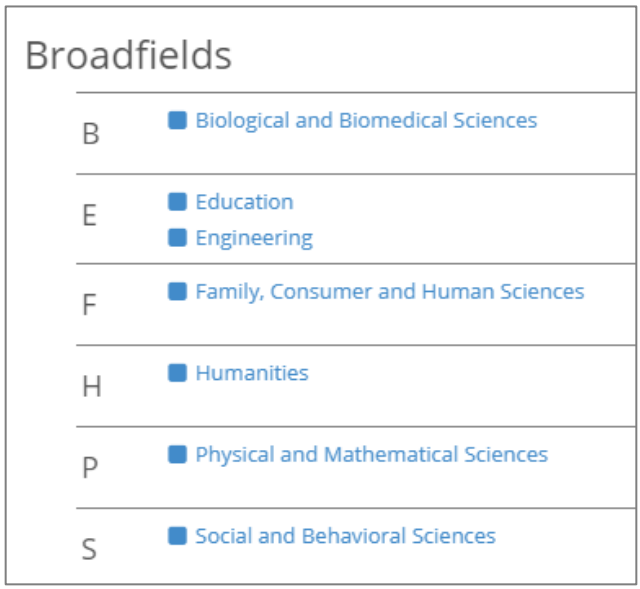
Taxonomies presents the Academic Analytics Taxonomic Classification of all Programs and Departments in the client institution. The default view is Programs, which presents all Programs and their level 1, 2, and 3 taxonomic classifications. Use the upper right drop-down menu to switch to the Departments view.



Program Name	AA Level 1 Taxonomy	AA Level 2 Taxonomy	AA Level 3 Taxonomy
Unit-12604	Science Education	None - Education	Education
Unit-12605	Social Sciences, various	Social Sciences	Social and Behavioral Sciences
Unit-12606	Biomedical Engineering	None - Engineering	Engineering
Unit-3444	Anatomy	Biomedical Sciences	Biological and Biomedical Sciences
Unit-3445	Anthropology	Social Sciences	Social and Behavioral Sciences
Unit-3446	Applied Mathematics	Mathematical Sciences	Physical and Mathematical Sciences
Unit-3446	Statistics	Mathematical Sciences	Physical and Mathematical Sciences
Unit-3448	Atmospheric Sciences and Meteorology	Earth and Space Sciences	Physical and Mathematical Sciences
Unit-3449	Biochemistry	Biomedical Sciences	Biological and Biomedical Sciences
Unit-3449	Structural Biology	Biomedical Sciences	Biological and Biomedical Sciences
Unit-3453	Chemistry	Physical Sciences	Physical and Mathematical Sciences
Unit-3454	Comparative Literature	Languages and Literatures	Humanities
Unit-3455	Computer Engineering	None - Engineering	Engineering
Unit-3455	Electrical Engineering	None - Engineering	Engineering
Unit-3456	Computer Science	Computer and Information Sciences	Physical and Mathematical Sciences

Broad fields

There are eleven broad fields in the Academic Analytics level 3 taxonomy. The Broad field view begins with a listing of all broad fields at the user's institution.



The Full Data download is available within the Broad Field Header, and provides values, ranks, and percentiles for all metrics. For those unfamiliar with the column names, please refer to "Variable Key & Definitions" in Documentation > How the Database is Assembled.

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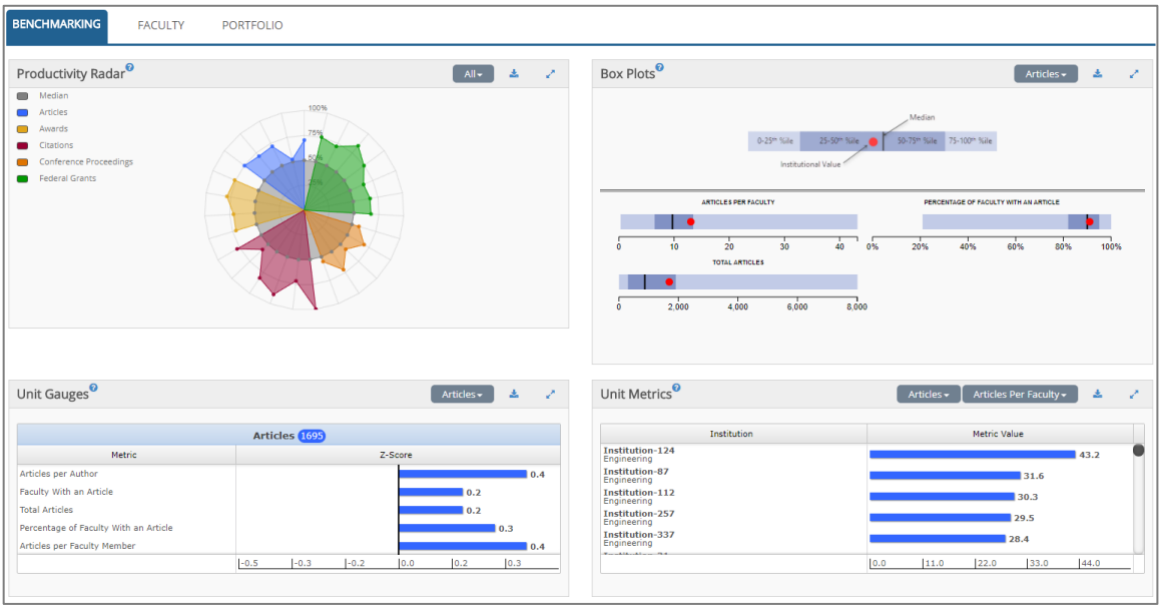
Benchmarking

Selecting a broad field from the list takes the user to the Broad Field Benchmarking page. The Benchmarking page presents the Productivity Radar, Box Plots, Unit Gauges and Unit Metrics.



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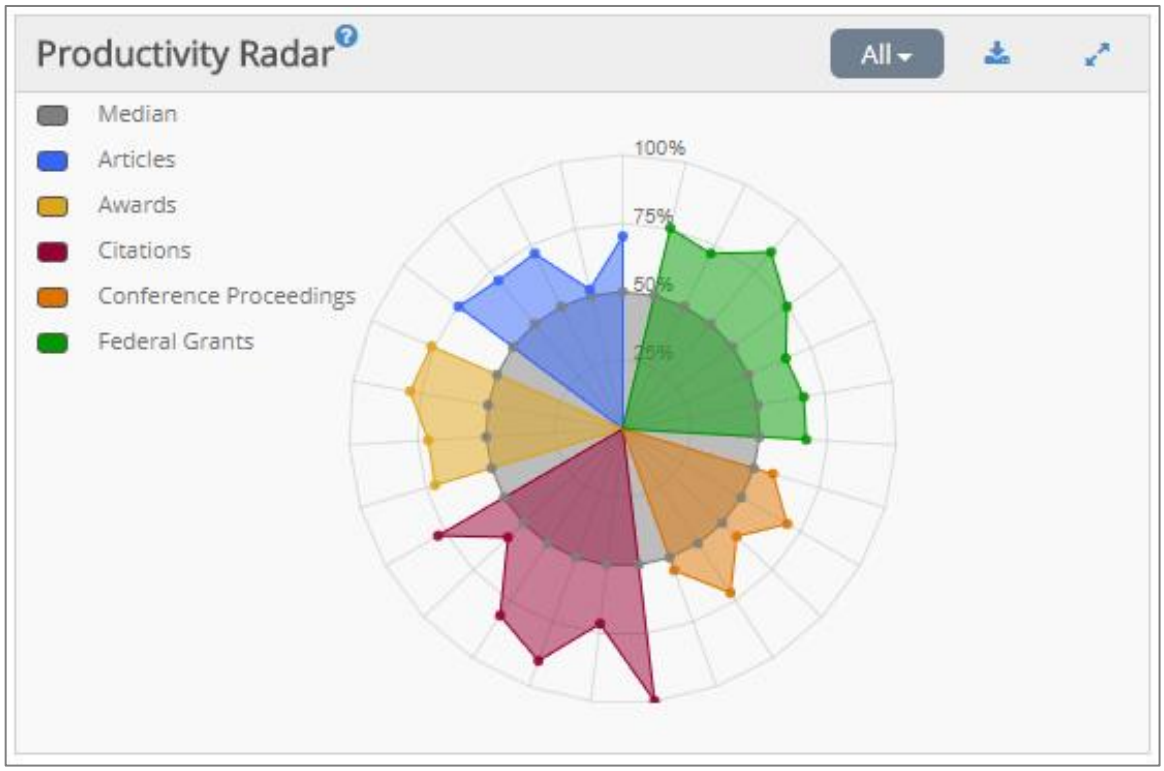
The Productivity Radar presents research activity on all metrics against the national median. By using the drop-down menu in the upper right-hand corner, the user may select a specific variable to examine. Selections available are: Articles, Awards, Books, Citations, Conference Proceedings, and Grants.



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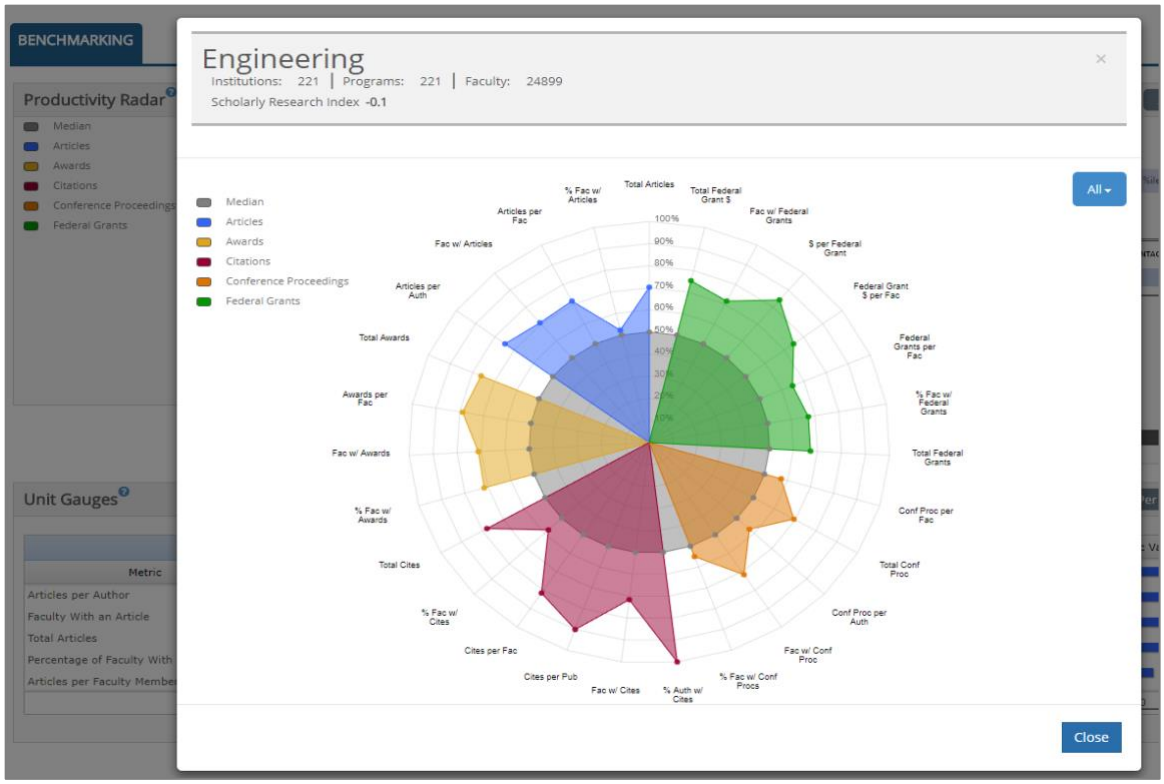
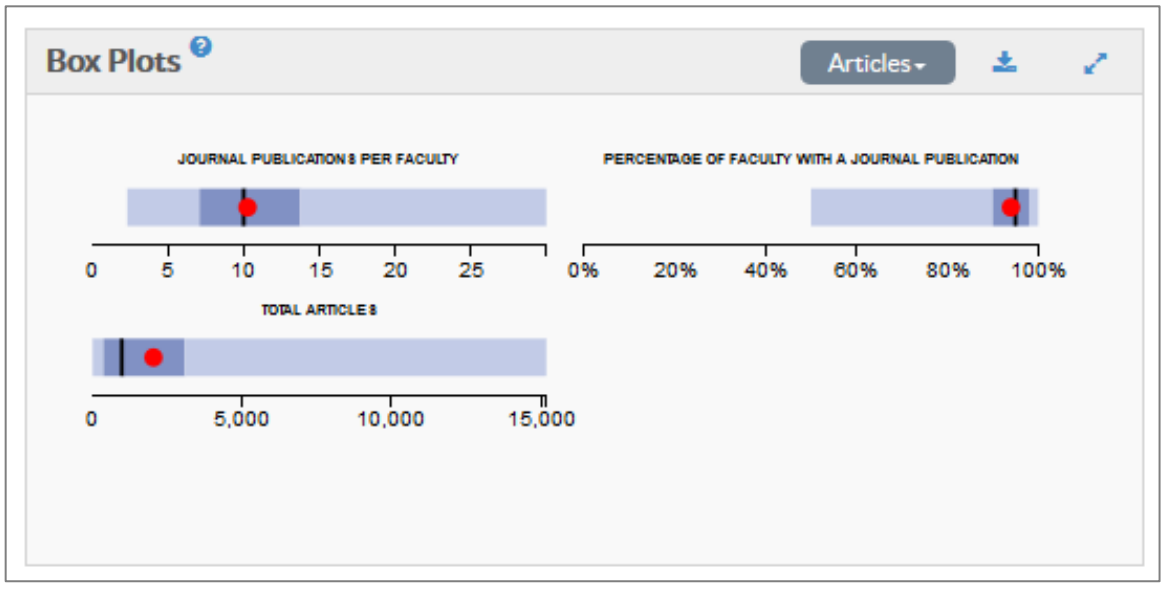
By clicking on the expansion icon in the top right-hand corner, the graph (as well as most others in the portal) can be expanded for easier viewing.



Box Plots provides the distributions of key metrics for the selected variable: Articles, Awards, Citations, Conference Proceedings, Grants, and Grant Dollars. Use the drop-down menu in the upper right-hand corner to select a variable of interest.



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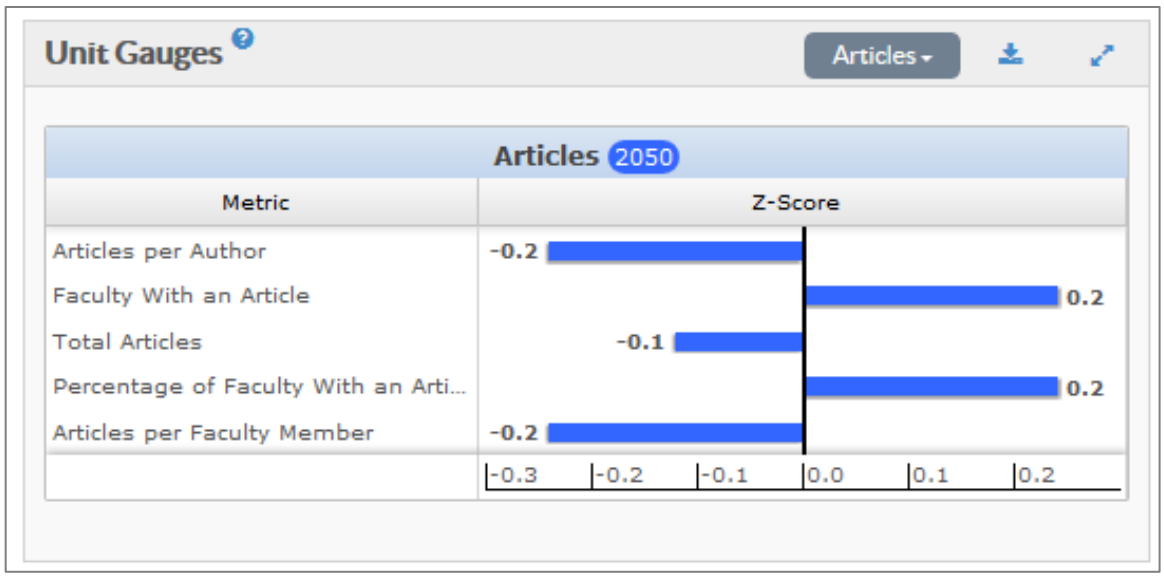
Broad field Unit Gauges present the SRI Index score of broad field performance for each metric within variable families appropriate for the discipline and bar charts showing broad field performance against the national median. Metric families include, Articles, Awards, Books, Citations, Conference Proceedings and Grants. Clicking on the metric family in the top right-hand corner of the Unit Gauge opens a drop-down menu with all appropriate metric families available. The total number of each metric is displayed in the center of the gauge. Clicking on the extension arrow in the far top right-hand corner, the gauges can be expanded for easier viewing.



Unit Metrics shows each institution in the database with the target Broad Field on campus. Metrics are available for each Variable Group appropriate to the Broad Field. This includes Articles, Awards, Books, Citations, Conference Proceedings and Grants.

- Individual metrics for Articles includes: Articles per Author, Articles per Faculty, Faculty with Articles, Percentage of Faculty with an Article and Total Number of Articles.
- Individual metrics for Awards includes: Awards per faculty, Number of Faculty with an Award, Percentage of Faculty with an Award and Total Awards.
- Individual Books metrics include: Book Publications per faculty, Number of Faculty with a Book, Percentage of Faculty with a Book and Total Number of Books.
- Individual Metrics for Citations includes: Citations per Article, Citations per Faculty, Number of Faculty with a Citation and Total Number of Citations.
- Individual metrics for Conference Proceedings include: Conference Proceedings per Author, Conference Proceedings per Faculty, Number of Faculty with a Conference Proceeding, Percentage of Faculty with a Conference Proceeding and Total Number of Conference Proceedings.
- Individual metrics for Grants include: Dollars per Grant, Grant Dollars per Faculty, Grants per Faculty, Number of Faculty with a Grant, Percentage of Faculty with a Grant, Total Grant Dollars and Total Number of Grants.

Unit metrics presents each institution and a bar chart and numeric value for each individual metric within a variable group. Clicking on the extension arrow in the far top right-hand corner, the charts and values can be expanded for easier viewing.

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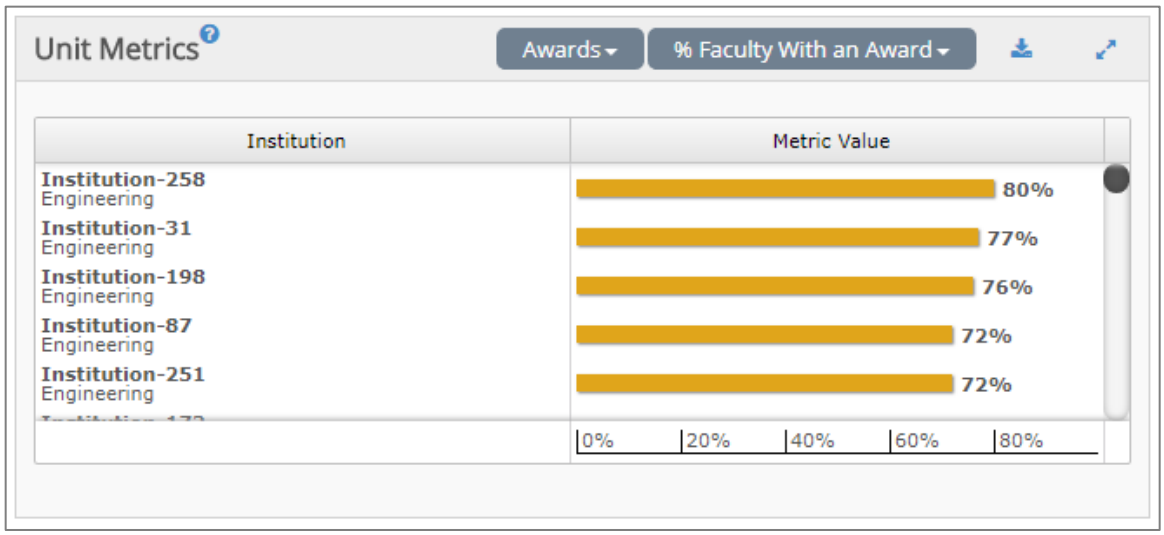


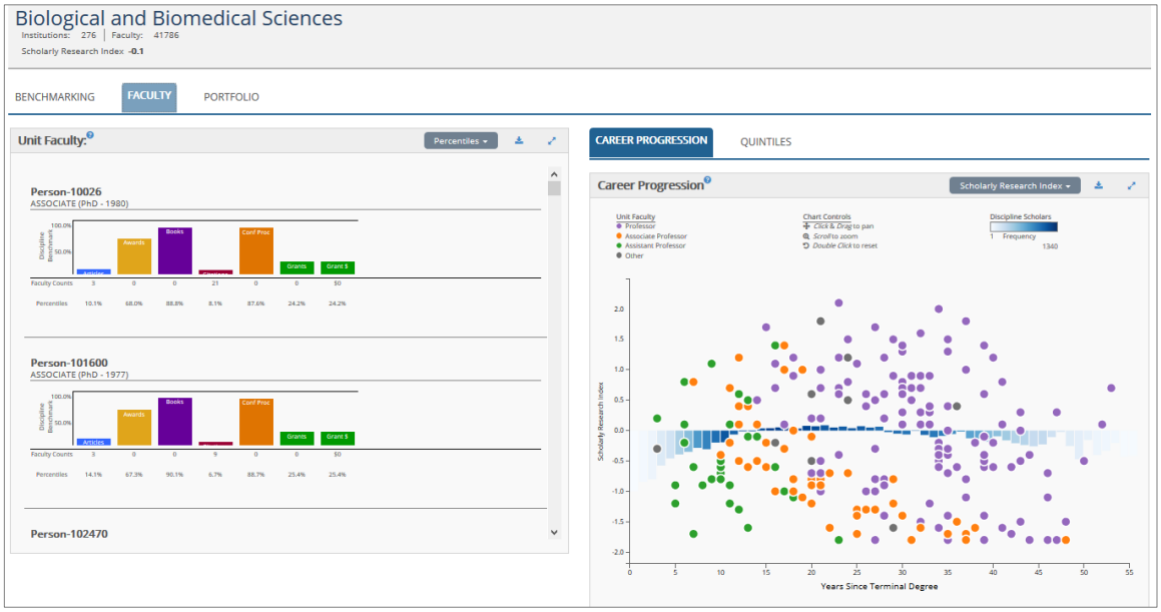
Faculty

Clicking on the Faculty tab brings up a listing of all unit faculty, counts of faculty research activity, and Career Progression and Quintiles charts for faculty in the unit.

Career Progression

Career Progression is the default view when first navigating to the tab. Unit faculty are color coded by rank: Professor, Associate, or Assistant Professor.

Level of research activity is charted by Years since Terminal Degree. Clicking on the drop-down menu in the upper right-hand corner of the chart brings up the different views available. These views include: Scholarly Research Index, Articles, Awards, Books, Citations, Conference Proceedings, Grants and Grant Dollars.



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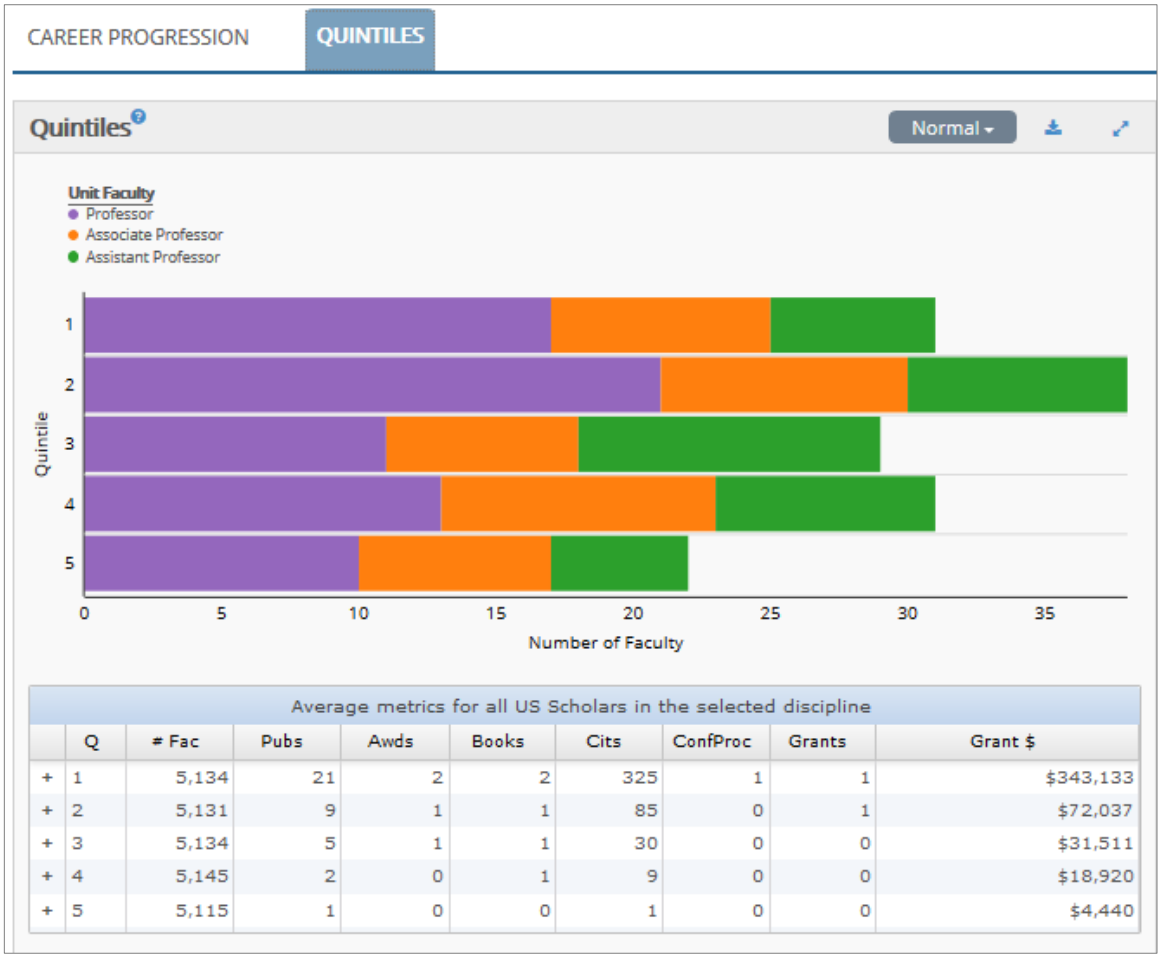
Quintile Analysis

Clicking on Quintiles brings up a view of unit faculty research activity organized into five quintiles with the most active being the first quintile and the least active being the fifth quintile. This is the "Normal" quintile view.



Average metrics for all US Scholars in the selected discipline

	Q	# Fac	Pubs	Awds	Books	Cits	ConfProc	Grants	Grant $
+	1	5,134	21	2	2	325	1	1	$343,133
+	2	5,131	9	1	1	85	0	1	$72,037
+	3	5,134	5	1	1	30	0	0	$31,511
+	4	5,145	2	0	1	9	0	0	$18,920
+	5	5,115	1	0	0	1	0	0	$4,440

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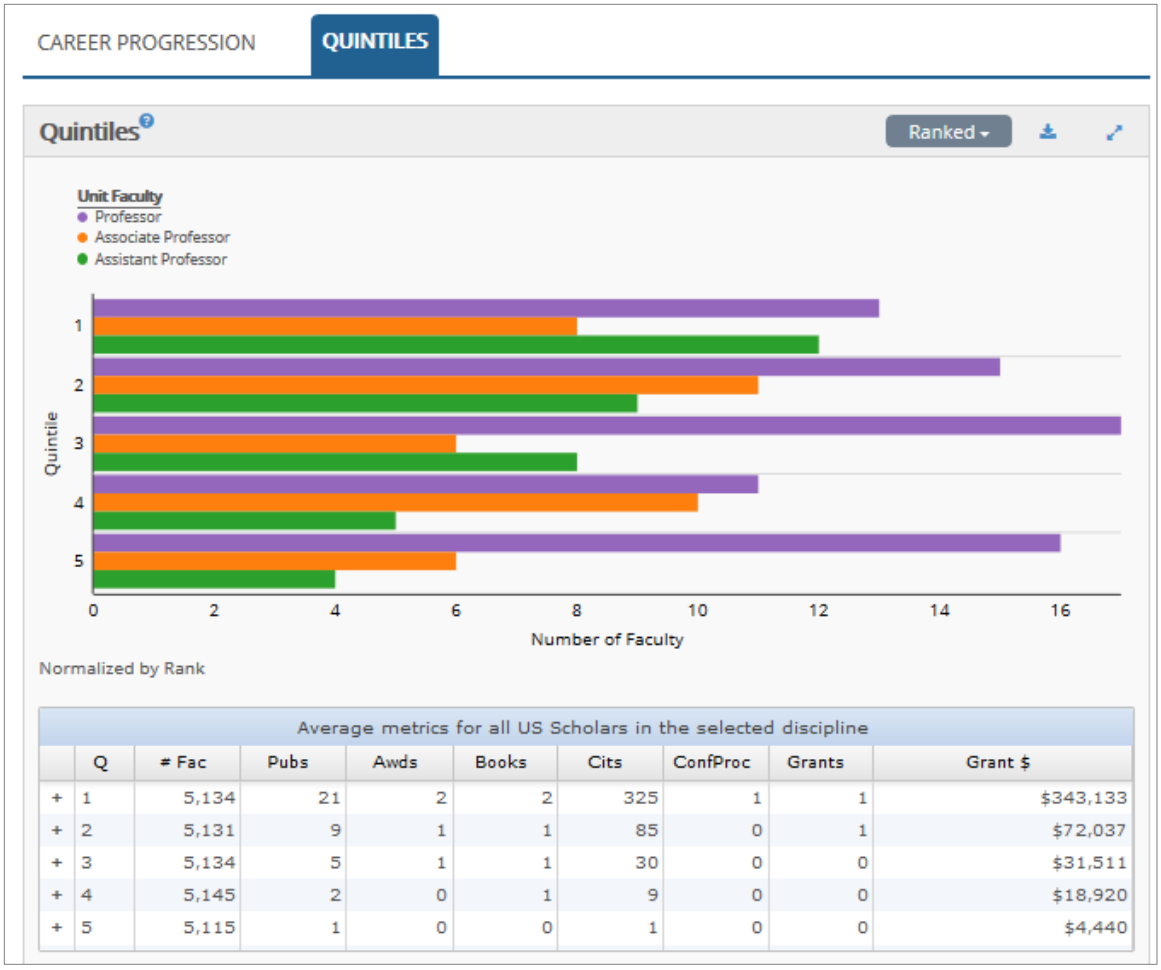
A button for a “Ranked” quintile view in the right-hand corner of the chart brings up a view of unit faculty arranged by level of research activity and by rank.



Average metrics for all US Scholars in the selected discipline

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+	1	5,134	21	2	2	325	1	1	$343,133
+	2	5,131	9	1	1	85	0	1	$72,037
+	3	5,134	5	1	1	30	0	0	$31,511
+	4	5,145	2	0	1	9	0	0	$18,920
+	5	5,115	1	0	0	1	0	0	$4,440

Clicking on the extension arrow in the far top right-hand corner, the charts can be expanded for easier viewing.

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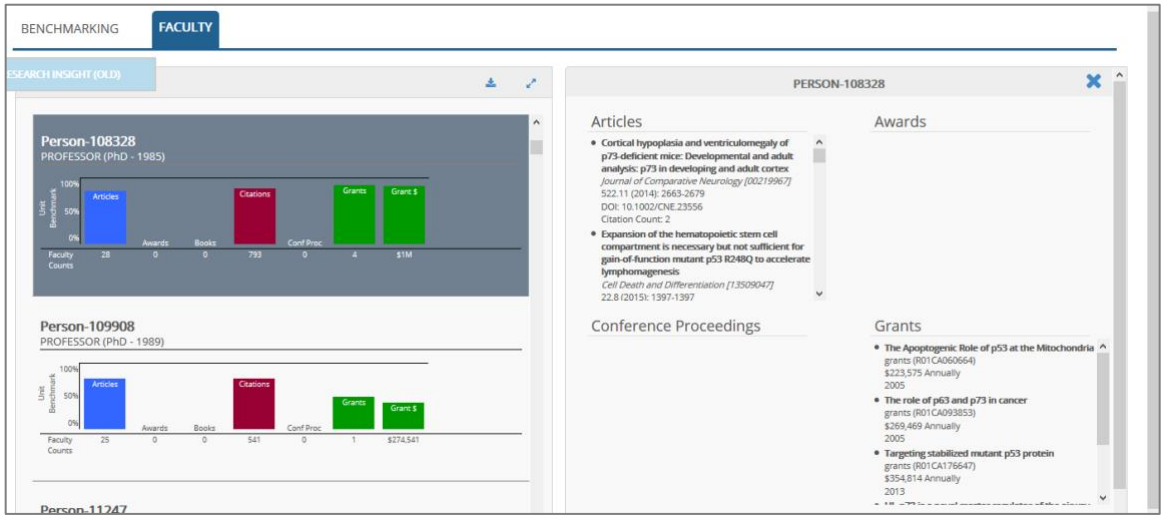
Faculty Detail Data

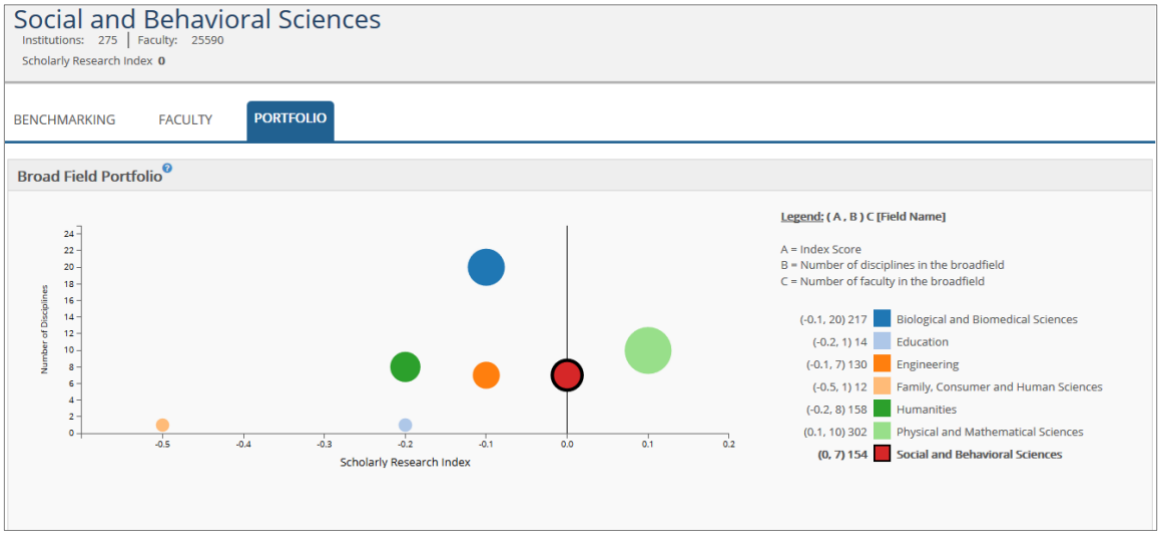
Clicking on an individual's name brings up detail data for that individual's research activity. Detail data include:

Articles	bibliographic record and CrossRef citation counts
Conference Proceedings	bibliographic record and CrossRef citation counts
Books	bibliographic record and ISBN
Awards	award name, granting society and date
Grants	Grant name, number, dollar amount and dates



Broad Field Portfolio

An institution's overall research activity is a function of its constituent parts. A university that is strong in all broad fields will have an overall performance that is strong. The Broad Field Portfolio tool provides a graphic representation of broad field research performance showing the Scholarly Research Index on the horizontal axis, number of disciplines in the broad field on the vertical axis, and the number of faculty for each broad field (size of colored bubbles).



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Departments

Custom Filters

The Department view begins with the Custom Filters drop-down menu across the top of the page. Expanding this drop-down menu displays Peer Group and Time Window filters.

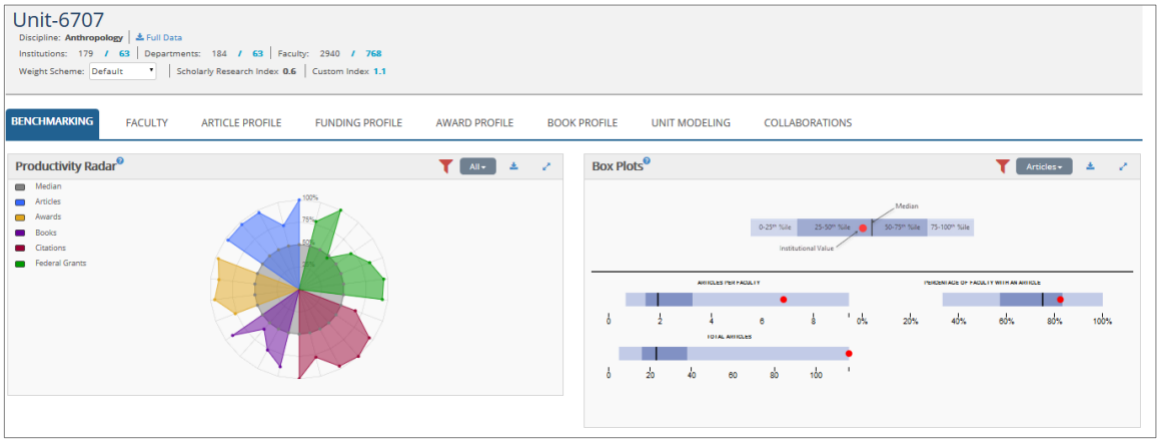
Peer Group filters include AAU, Public/Private, State, Carnegie Classification, Land Grant, and manual selection of peer institutions. The last standard filter on the top of the page is Institutions. Clicking on Institutions brings up a list of all 412 institutions in the database and allows the user to select individual institutions which will create a custom comparative peer set. Users are also able to select multiple options for Carnegie and State peers in the Comparative filter.

The Time Windows filters in the Academic Analytics portal allows users to create their own snapshot of research activity using custom date ranges in place of default date ranges. Clicking on "Time Windows" opens a dialog box that shows the default time windows for the database release.

Time windows available for variables are:

Articles:	2006 – 2017.
Awards:	no limit – 2017.
Books:	2005 – 2017.
Citations:	2006 – 2017.
Conference Proceedings:	2006 – 2017.
Grants:	2009 – 2017.

Once you have selected your custom filtering options, click on "Apply". At this point, your filters will be applied, and all data recalculated based on your selections. Notice that the summary line of unit information has been changed to reflect this customization. The numbers of institutions, departments, and faculty members presented in blue are the custom summary numbers after application of the filter. Also note that the custom Scholarly Research Index score is presented in blue. Subsequent pages of the portal will reflect the application of the custom filters.



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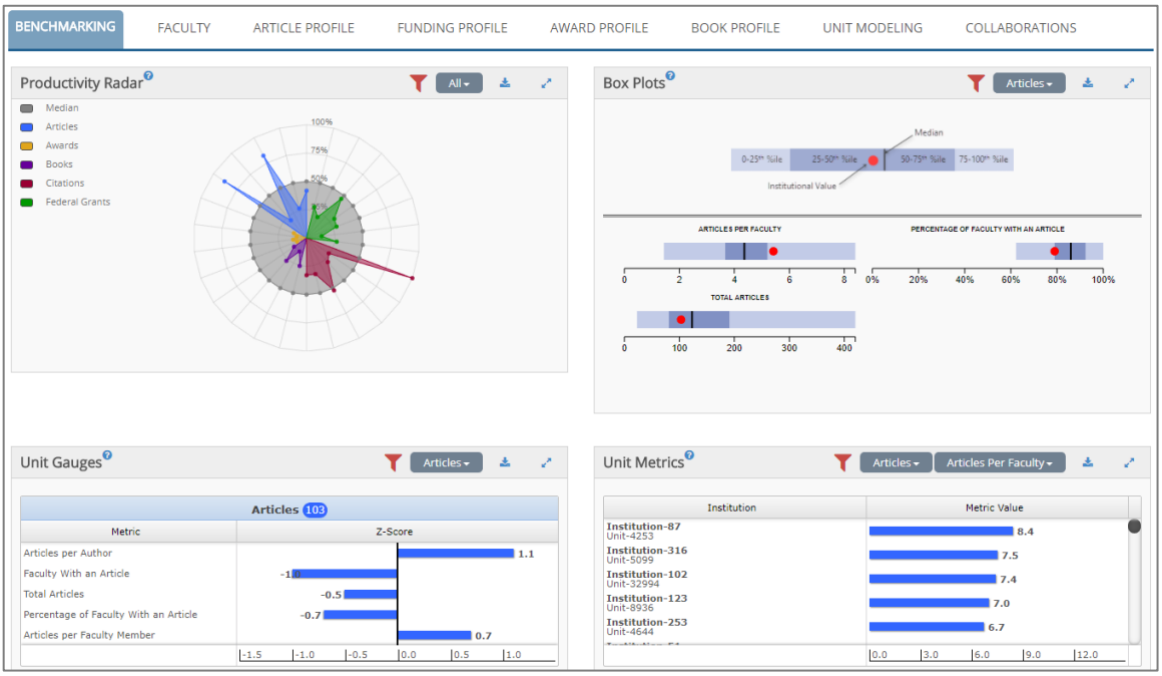
Clicking on “Save” brings up a dialog box which allows the user to name and save the filter.

Clicking “Reset” returns you to the default view. Now, whenever you wish to view the data with that same filter, simply call up the filter from the drop-down menu and click “Apply Filter” circle with a check mark on the line containing the filter name. The custom filter will be used for comparison on all subsequent pages of the portal.

Department Benchmarking

The Benchmarking Overview is the default view. Other views listed across the page are: Faculty, Article Profile, Funding Profile, Award Profile, Book Profile, Unit Modeling, and Collaborations.



The Benchmarking page presents the Department Productivity Radar, Box Plots, Unit Gauges, and Unit Metrics.

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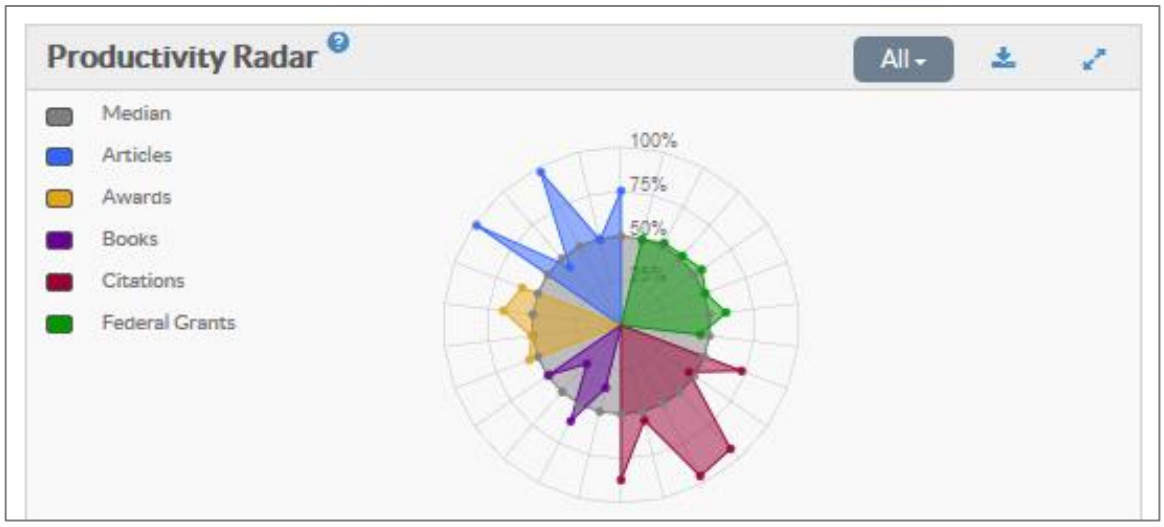
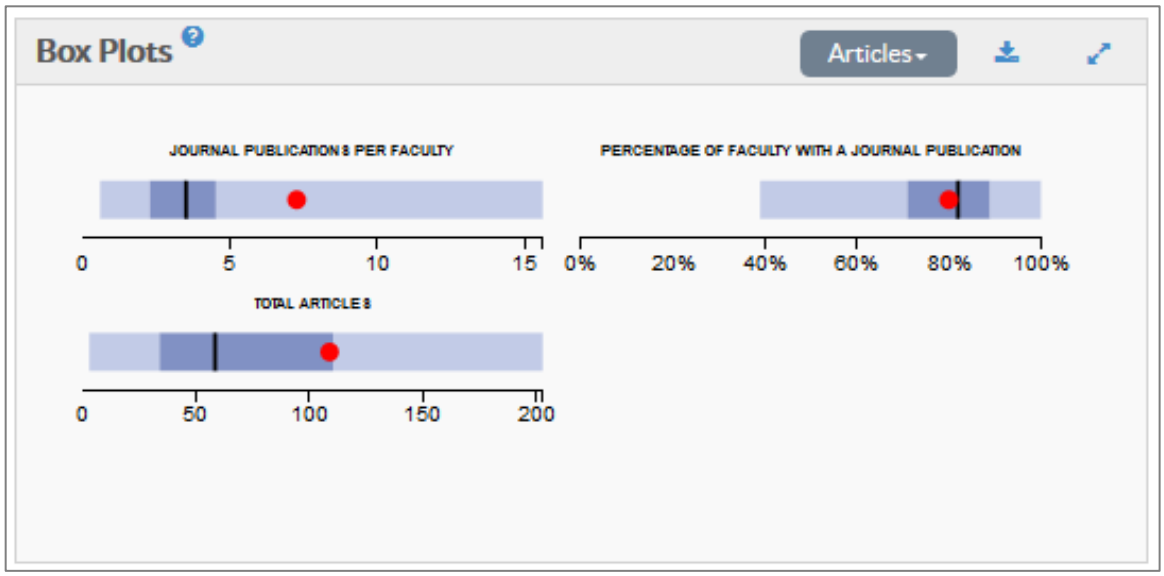
The Department Productivity Radar presents department research activity on all metrics against the median of the comparative group, national by default. By clicking on All in the upper right-hand corner, the user may select a specific variable to examine. Selections available are: Articles, Awards, Books, Citations, Conference Proceedings, and Grants.



Box Plots provide distributions of key metrics for the selected variable. Clicking on the variable listed in the top right-hand corner exposes a drop-down menu of available variables.



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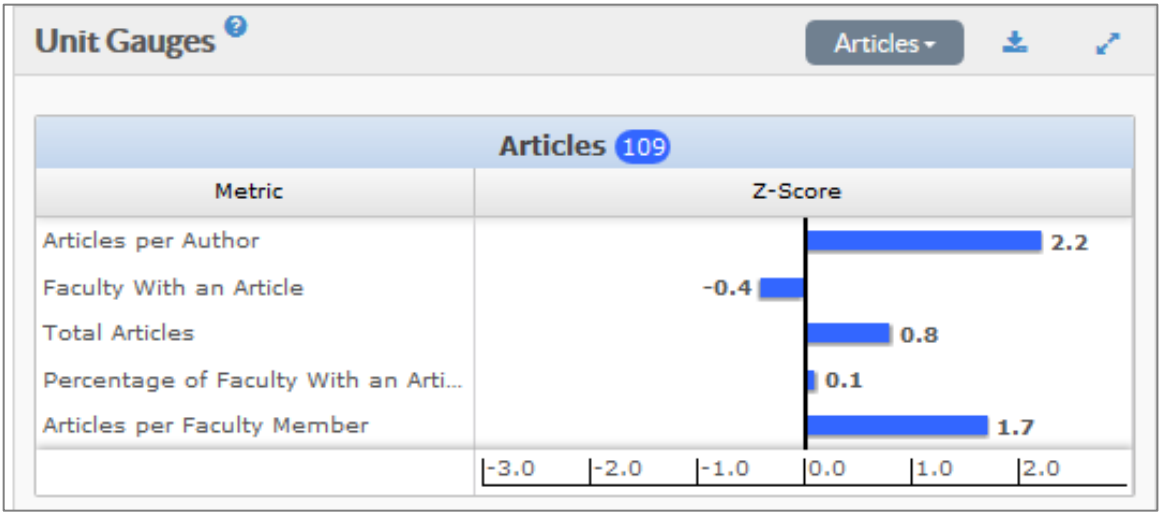
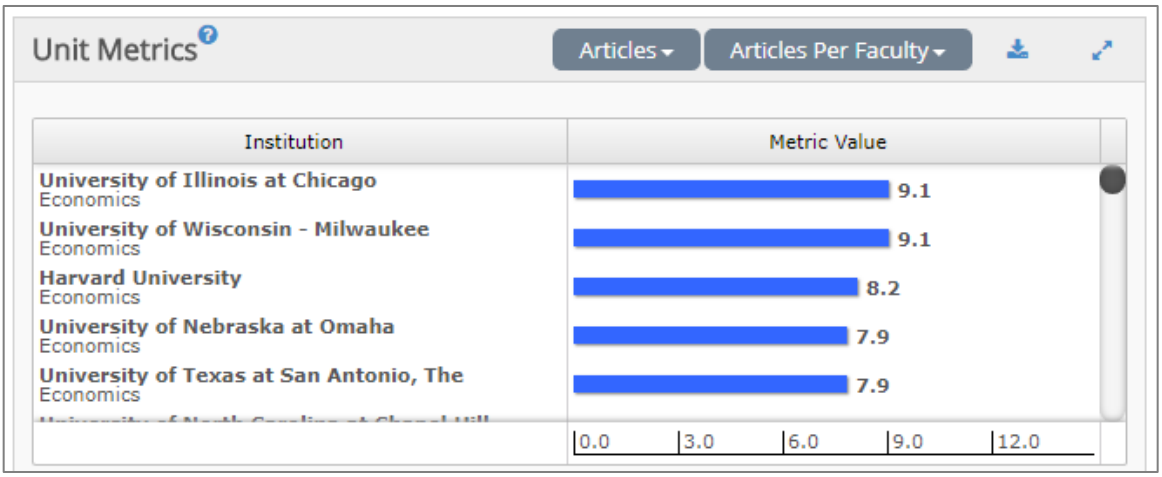
Unit Gauges present the department's Z-Score performance for each metric of the selected variable. Variables include Articles, Awards, Books, Citations, Conference Proceedings and Grants. Clicking on the metric family in the top right-hand corner of the Unit Gauge opens a drop-down menu with all available variables. The count of the selected variable is displayed in the center of the gauge.



Unit Metrics shows each peer department at each institution in the comparative group. Metrics are available for each variable appropriate to the discipline. This includes Articles, Awards, Books, Citations, Conference Proceedings, and Grants. The drop-down menus in the upper right can be used to select a specific combination of variable and metric.



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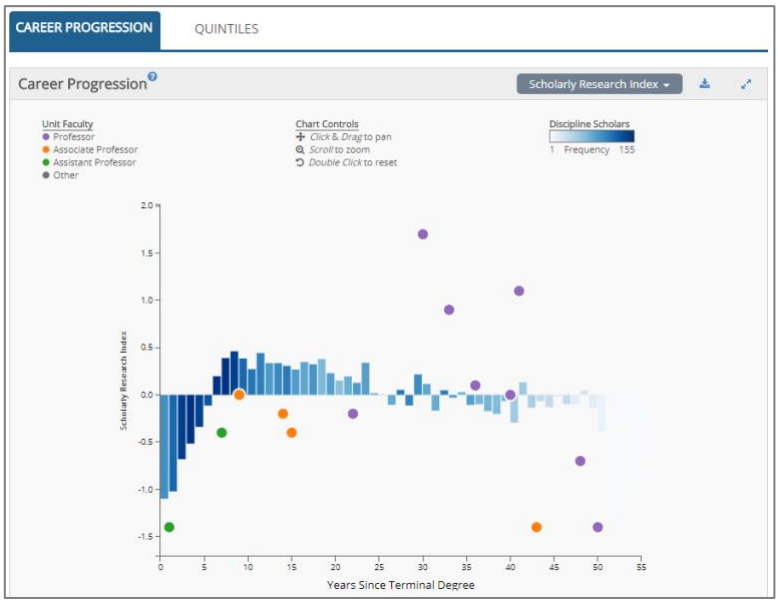
Department Faculty

Clicking on Faculty opens the Faculty page which begins by showing a detailed list of unit faculty, a Career Progression chart for the discipline, and a Quintiles chart for the discipline.

The Unit Faculty list provides the faculty name, rank, terminal degree and date of degree. There is also a percentile chart for volume of activity within the discipline, which includes the number of Articles, Awards, Books, Citations, Conference Proceedings, Grants, and Grant Dollars.

Career Progression

The Career Progression Chart plots the department faculty within a discipline as dots over the progression graph – faculty are color coded by rank. The Y-axis represents a Z-Score when a variable is selected; by default, the Scholarly Research Index is shown. The X-axis represents years since terminal degree. Use the drop-down menu in the upper right to switch between selections. Placing your cursor over a dot representing an individual will reveal that person's name, years since terminal degree and the individuals overall Scholarly Research Index or Z-Score for the variable under consideration.



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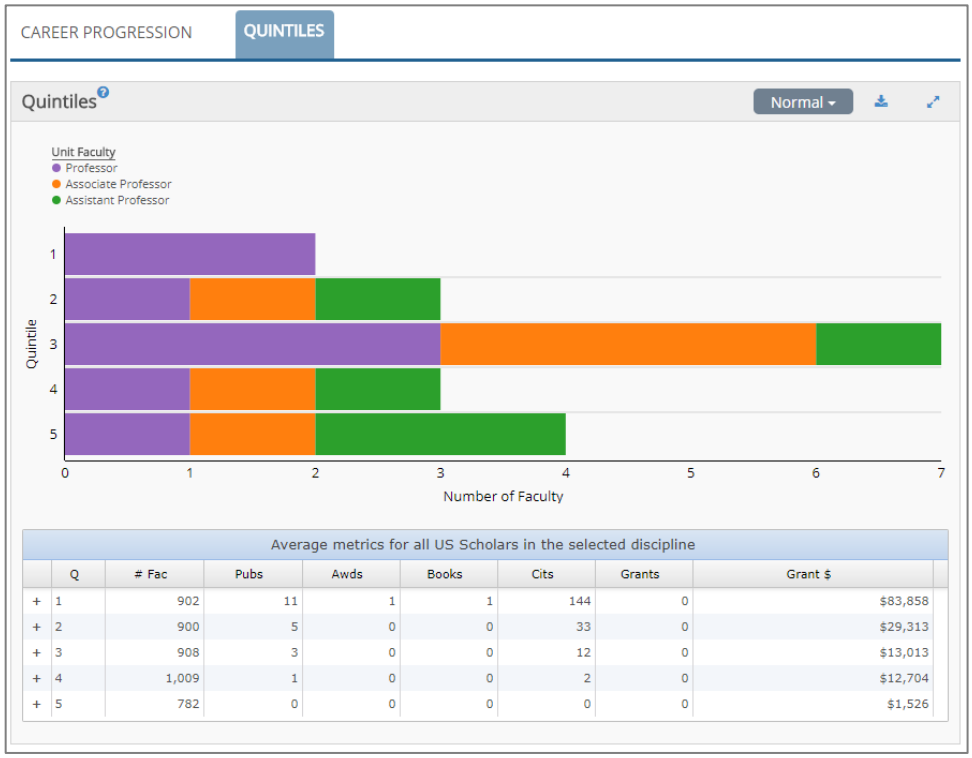
Quintile Analysis

Academic Analytics captures national data on all faculty research activity within a discipline and attaches those data to individual faculty members. Hence, Academic Analytics is able to organize and rank individual faculty based on their research activity within their discipline. We have organized faculty into 20% bands, or quintiles, for presentation of these data. This tool provides a picture of research activity in the discipline through a description of each of the quintiles in terms of:

Average Citations
Average Journal Articles
Average Awards
Average Books
Average Number of Grants
Average Annual Grant Dollars

Clicking on Quintiles brings up a quintiles chart for department faculty. Normal is the default setting. The Normal setting displays faculty research activity divided into five quintiles color coded by rank. A chart below the quintile display defines the five quintiles in terms of number of faculty in each quintile, average number of publications, awards, books, citations, conference proceedings, grants and grant dollars per quintile.



Average metrics for all US Scholars in the selected discipline

	Q	# Fac	Pubs	Awds	Books	Cits	Grants	Grant $
+	1	902	11	1	1	144	0	$83,858
+	2	900	5	0	0	33	0	$29,313
+	3	908	3	0	0	12	0	$13,013
+	4	1,009	1	0	0	2	0	$12,704
+	5	782	0	0	0	0	0	$1,526

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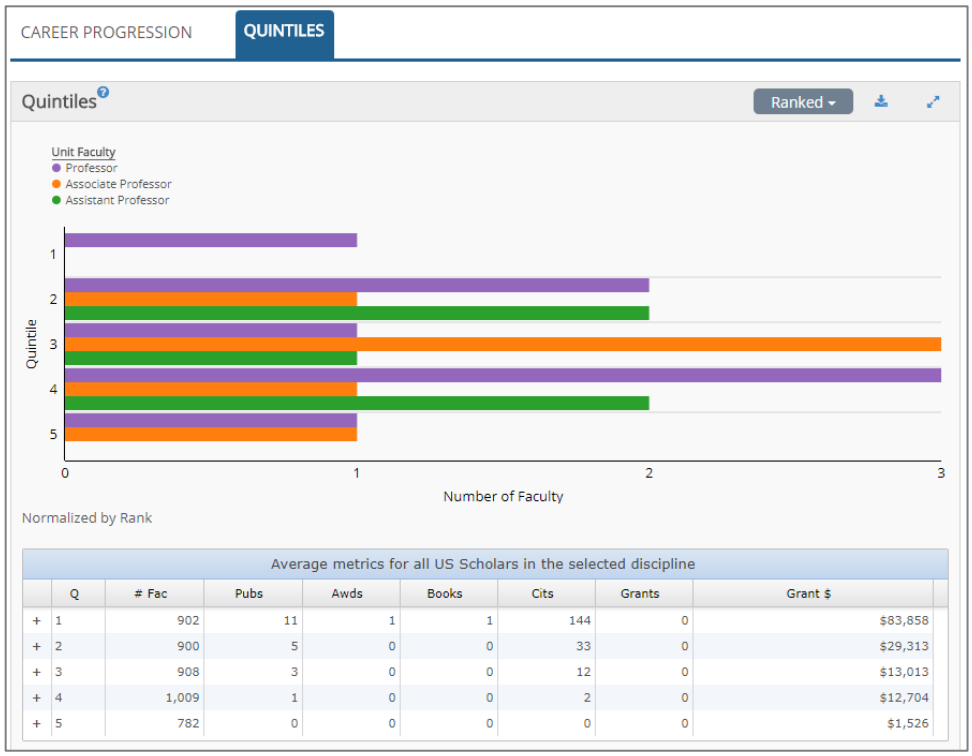
Selecting “Ranked” in the drop-down menu brings up a quintiles chart showing faculty quintile placement by rank. All discipline faculty members have been separated out by academic rank. They have been organized into five quintiles according to their Scholarly Research Index within their rank.

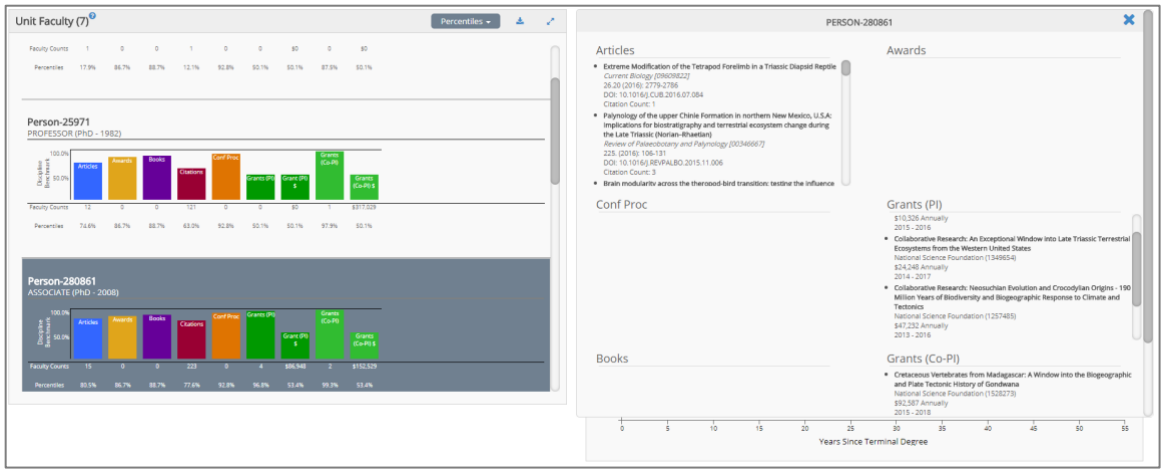


	Q	# Fac	Pubs	Awds	Books	Cits	Grants	Grant $
+	1	902	11	1	1	144	0	$83,858
+	2	900	5	0	0	33	0	$29,313
+	3	908	3	0	0	12	0	$13,013
+	4	1,009	1	0	0	2	0	$12,704
+	5	782	0	0	0	0	0	$1,526

Detail Data

Clicking on an individual’s name in the faculty list brings up detail data for that individual’s research activity. Detail data include:

Articles	bibliographic record and CrossRef citation counts
Conference Proceedings	bibliographic record and CrossRef citation counts
Books	bibliographic record and ISBN
Awards	award name, granting society and date
Grants	Grant name, number, dollar amount and dates



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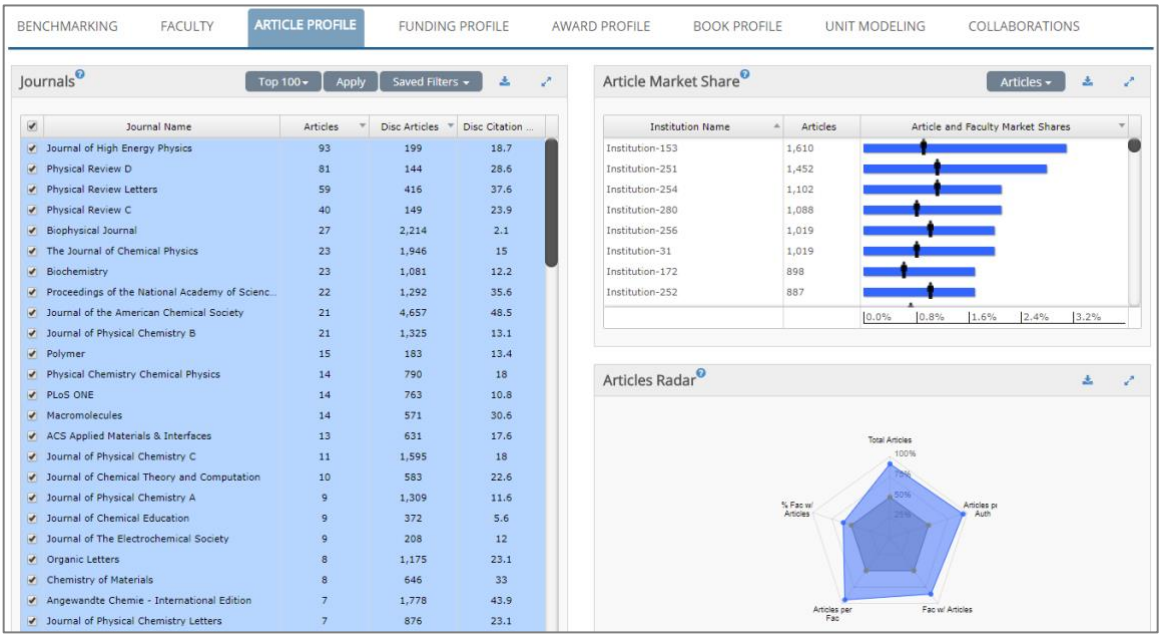
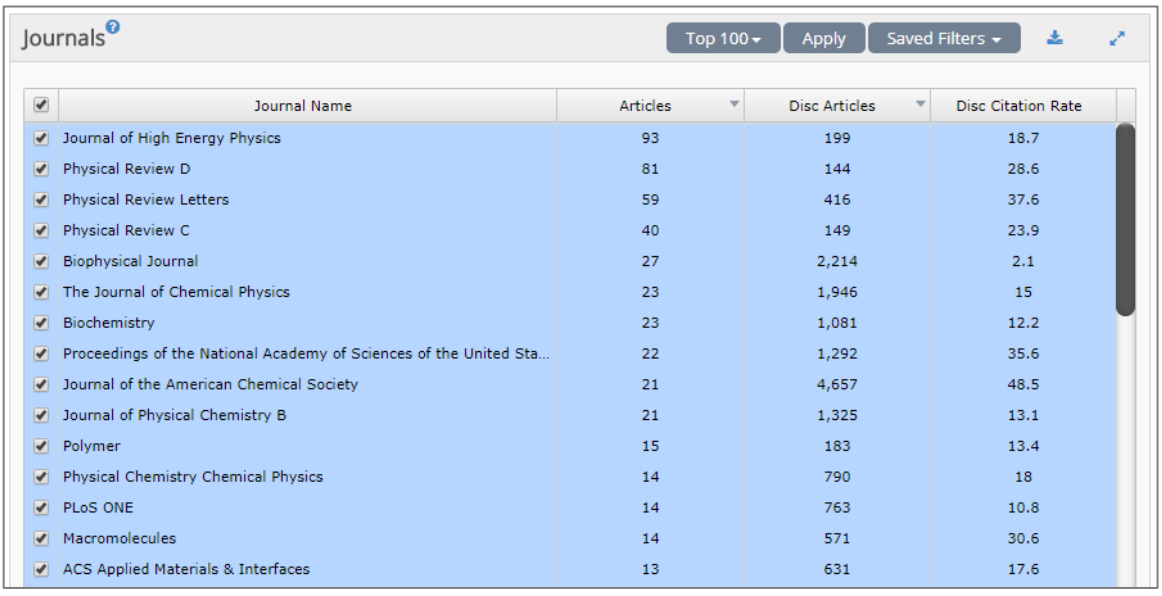
Article Profile

There are three sections to the Article Profile page: Journals, Article Market Share, and Articles and Citations Radar.



First, the Journals section provides a listing of all journal titles associated with the discipline, along with the number of department Articles, discipline Articles, and discipline Citation Rate. The journal list is customizable. The user can select the Top 20 or Top 100 journals by volume, all journals associated with the discipline, or create a unique list. All journal titles are preceded by a check box. Checking the box keeps the journal title in the disciplinary list and unchecking a box removes the title from the disciplinary list. Clicking on the “Apply” button then reconfigures the journal title list and the resulting two charts. Custom views of the journal title list can be saved and reused in other sessions.



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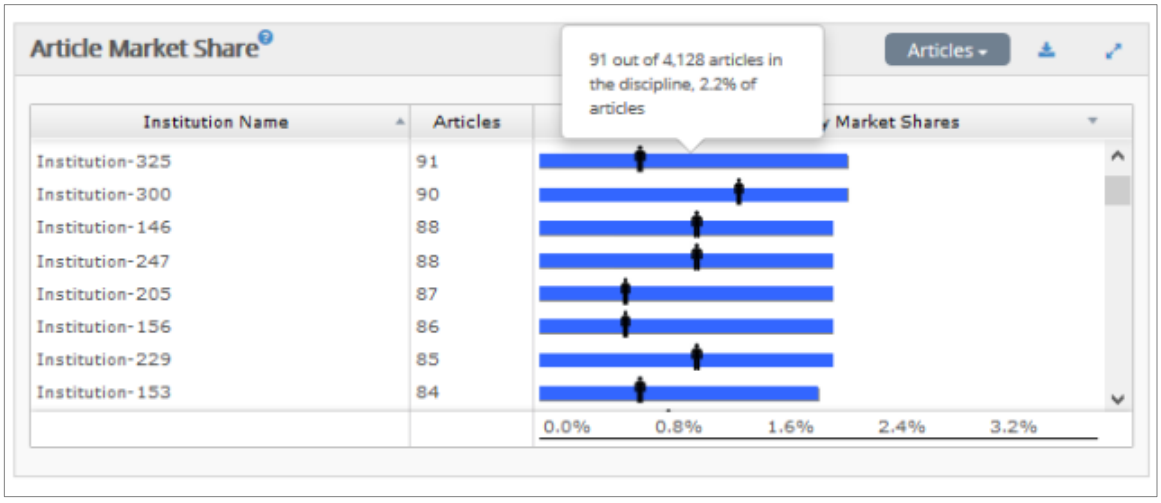
The second section is the Article Market Share. The chart shows the institution name and number of articles, followed by a bar chart showing the percentage of articles within the disciplinary literature, along with a faculty icon representing the percentage of faculty within the discipline. Placing your cursor on the icon for institution faculty will show the number of institution faculty in the discipline, the total number of faculty in the discipline and the percentage of disciplinary faculty that institution faculty represent. If an institution has multiple departments within a discipline, those faculty are combined into a single entry.

Hovering over the bar will display similar information for Articles.



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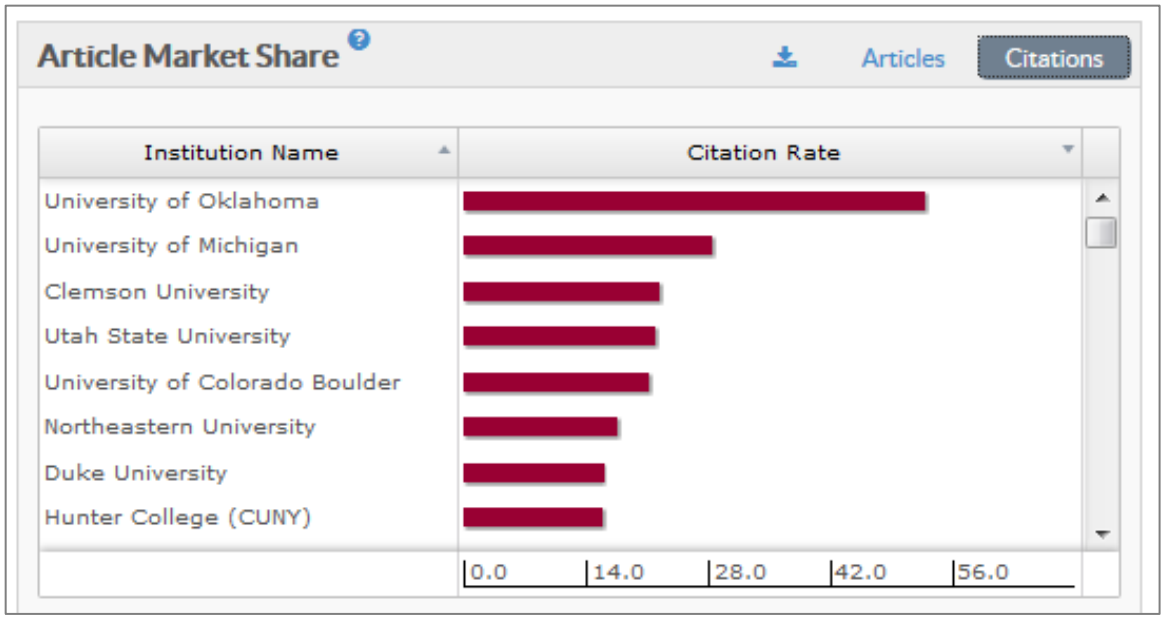
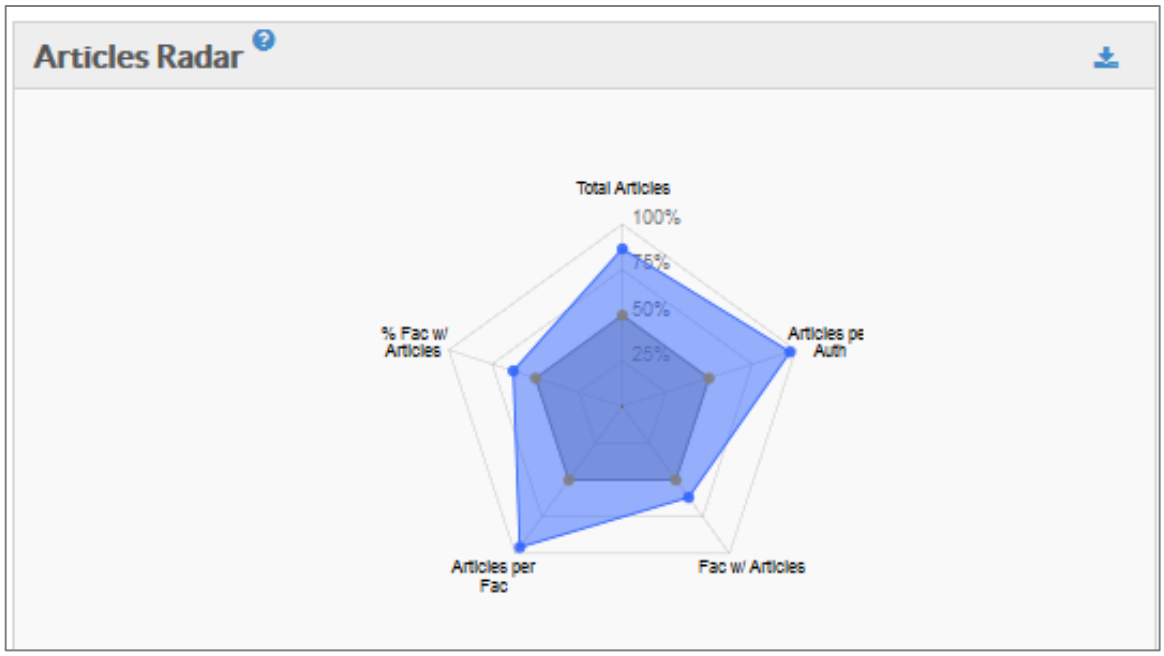
Selecting “Citations” from the drop-down menu in the upper right corner changes the view to citations and presents each institution and its citation rate within the disciplinary literature.



The Articles and Citations Radars swap along with the selection in the Article Market Share.

The Articles Radar presents a radar chart showing percentages for the following metrics: Total Articles, Articles per Author, number of Faculty with Articles, Articles per Faculty, and Percentage of Faculty with an Article.



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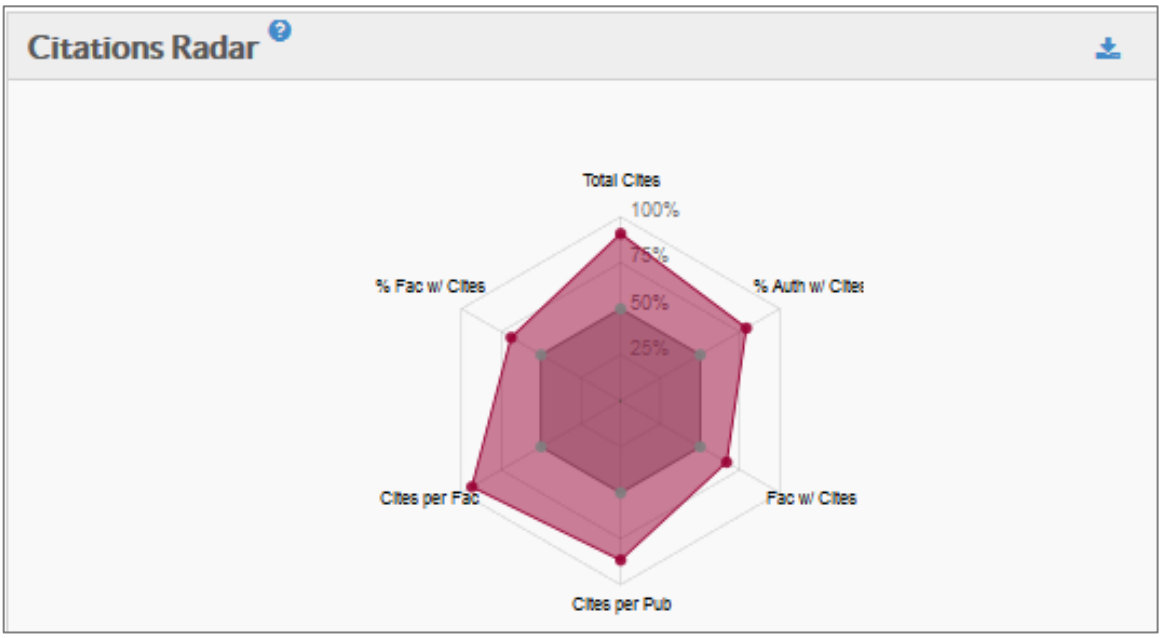
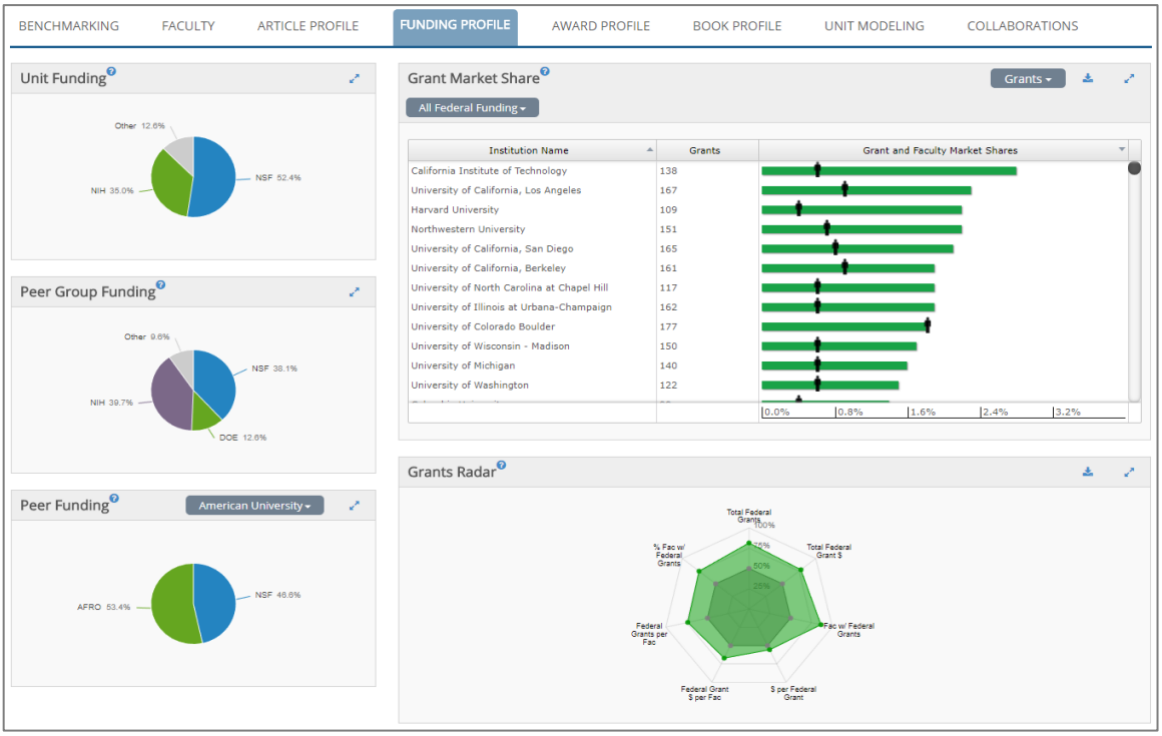
The Citations Radar shows unit activity for the following metrics: Total Citations, Percentage of Authors with a Citation, number of Faculty with Citations, Citations per Publication, Citations per Faculty, and Percentage of Faculty with a Citation.



Funding Profile

The Funding Profile is presented in three sections; Funding Profile Comparisons, Grant Market Share, and Grants Radar.



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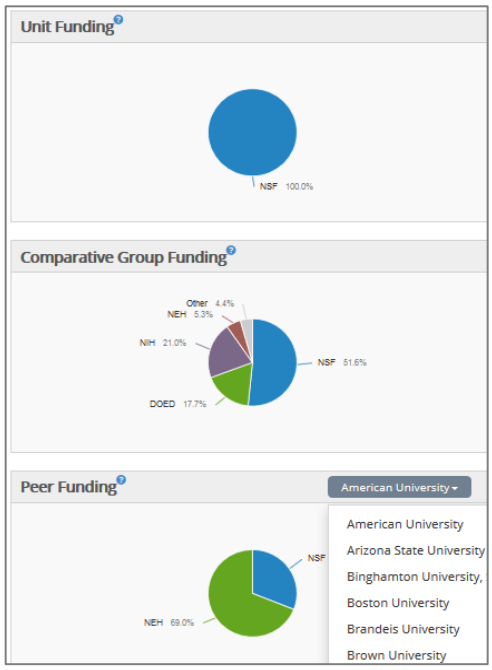
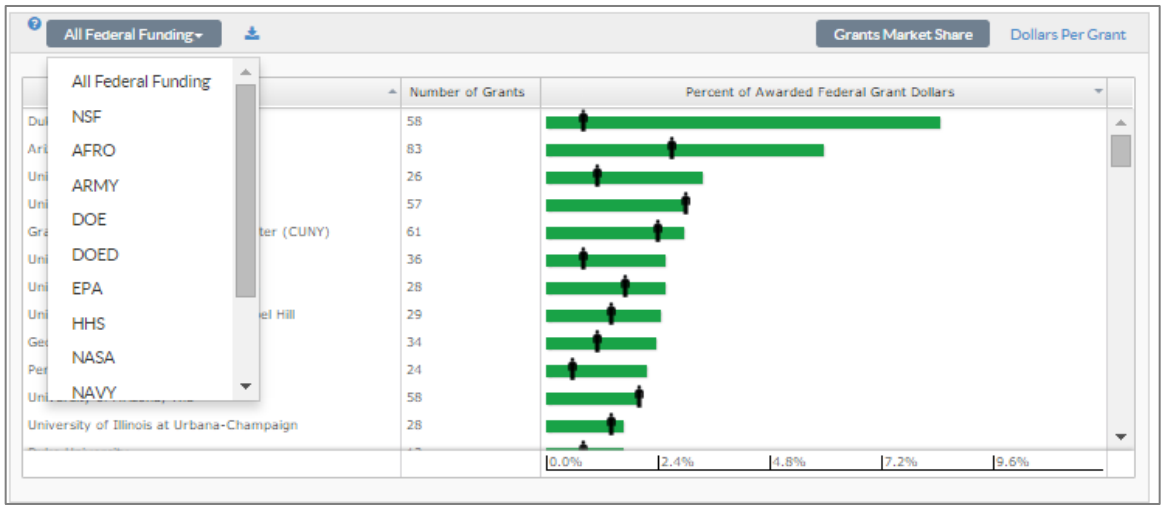
The first section displays unit funding compared to comparative group funding and individual peer department funding. A drop-down menu allows the user to select any peer institution for comparison.



A drop-down menu in the top left corner of the Grant Market Share provides the user with a way to select all granting agencies in the database or individual agencies. This selection will also affect the Grants Radar.



The Grant Market Share section shows the institution name, the number of grants, and a bar chart showing total grant dollars the institution's department faculty received, total grants dollars awarded in the discipline and the institution's percentage of awarded grant dollars.

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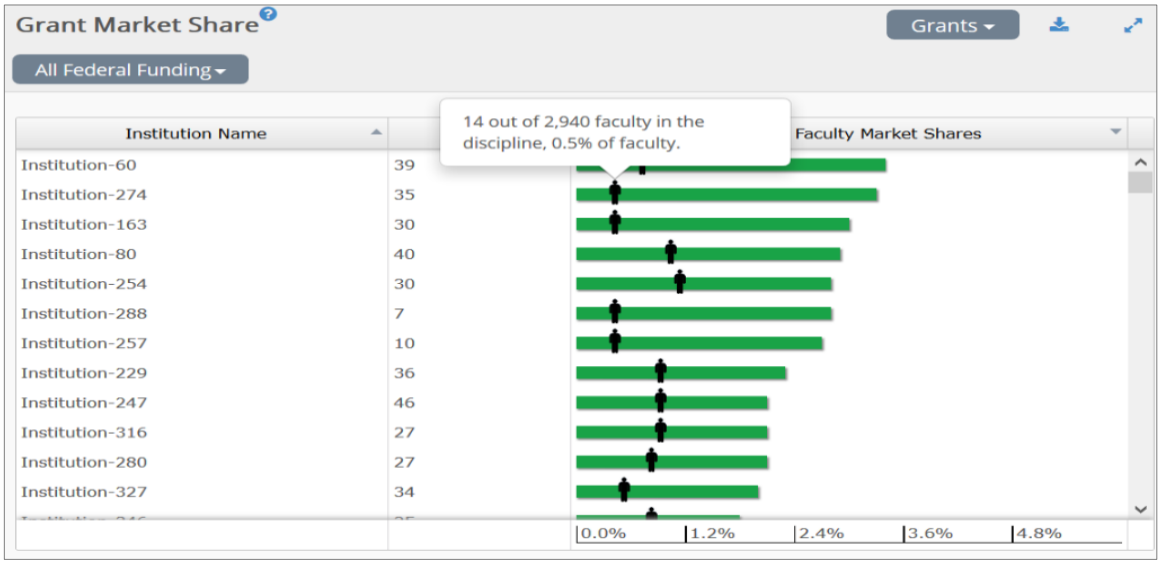
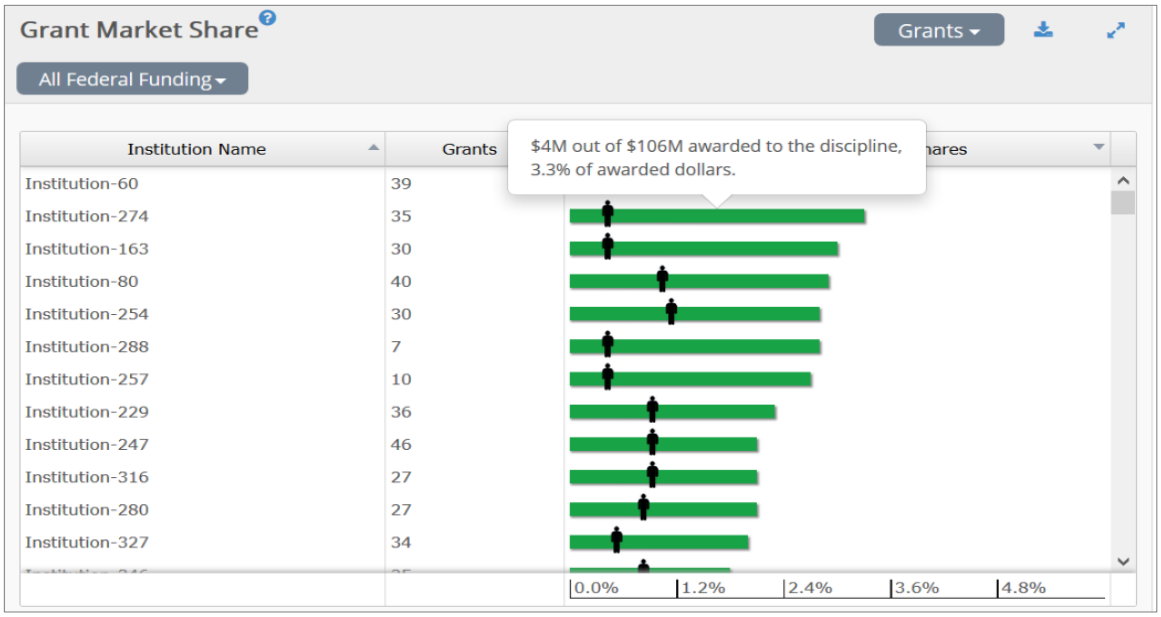
Placing the cursor over the faculty icon for an institution will show the number of department faculty in the discipline, the total number of faculty in the discipline, and the percentage of disciplinary faculty that institution faculty represent.



Holding your cursor over the bar chart displays the amount of funds captured by the unit, the total number of dollars awarded to the discipline, and the percentage of awarded dollars the unit has captured.



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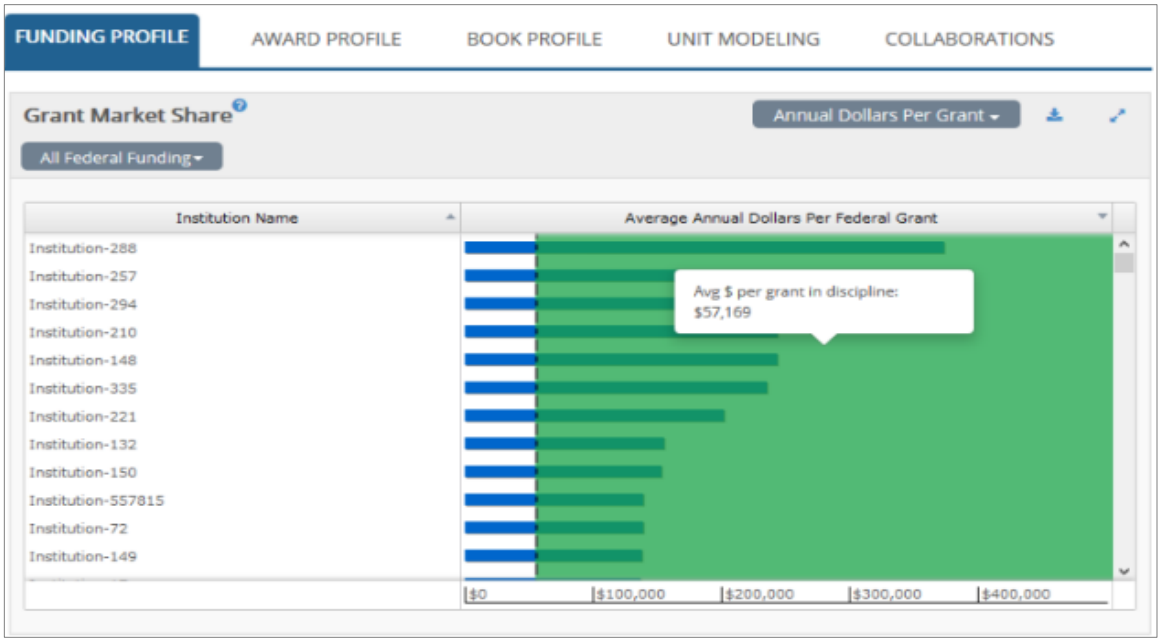
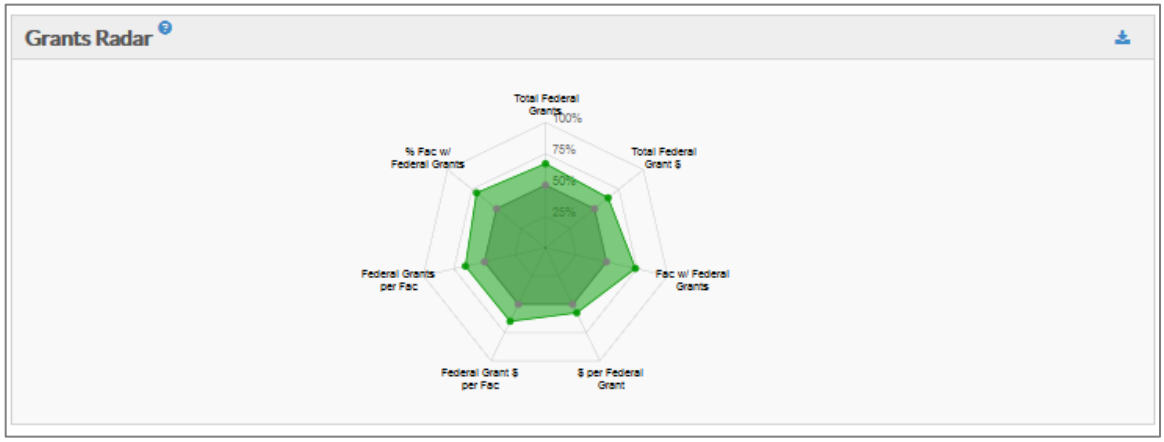
Selecting “Annual Dollars per Grant” from the top right drop-down menu shows the institution name and a bar chart representing the Average Annual Dollars per Grant for that institution’s department faculty within the discipline. A shaded area shows the average annual dollars per grant in the discipline.



The Grants Radar shows department grants performance against the comparative group in seven grants metrics: Total Grants, Total Grant Dollars, number of Faculty with a Grant, Dollars per Grant, Grant Dollars per Faculty, Grants per Faculty, and Percentage of Faculty with a Grant.



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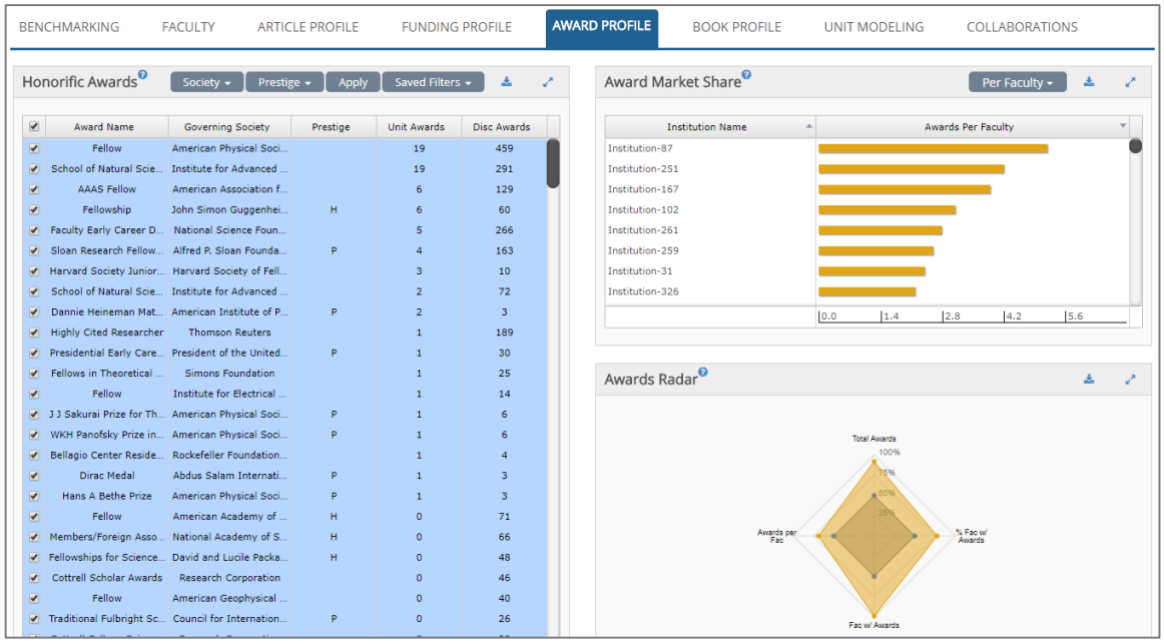
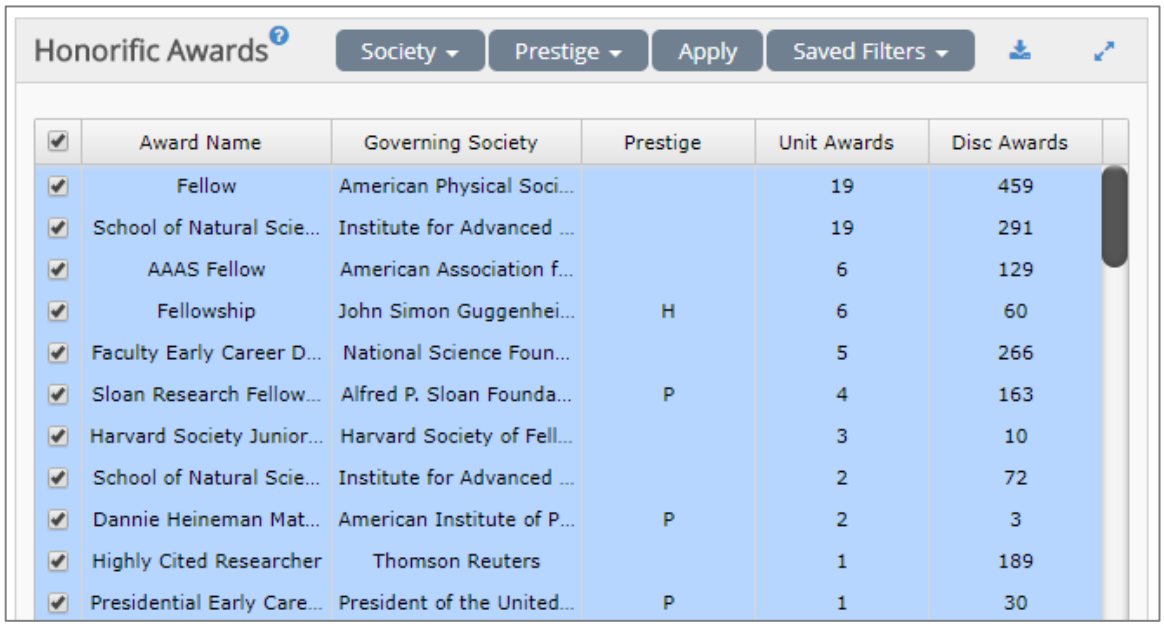
Award Profile

The Award Profile presents department level Award Market Share analyses. Similar to the Article Profile, there are three sections to this page: the Honorific Awards list, the Award Market Share, and the Awards Radar.



The first section, Honorific Awards, displays a table showing award names, governing societies, prestige as determined by the NRC, the number of awards for the unit, and the number of awards for the discipline. The awards can be filtered by governing society and prestige using the leftmost drop-down menus, or manually selected using the checkboxes on the left. After making a selection, click “Apply” to recalculate the Market Share and Radar sections. Custom sets can be saved using the “Saved Filters” drop-down menu.



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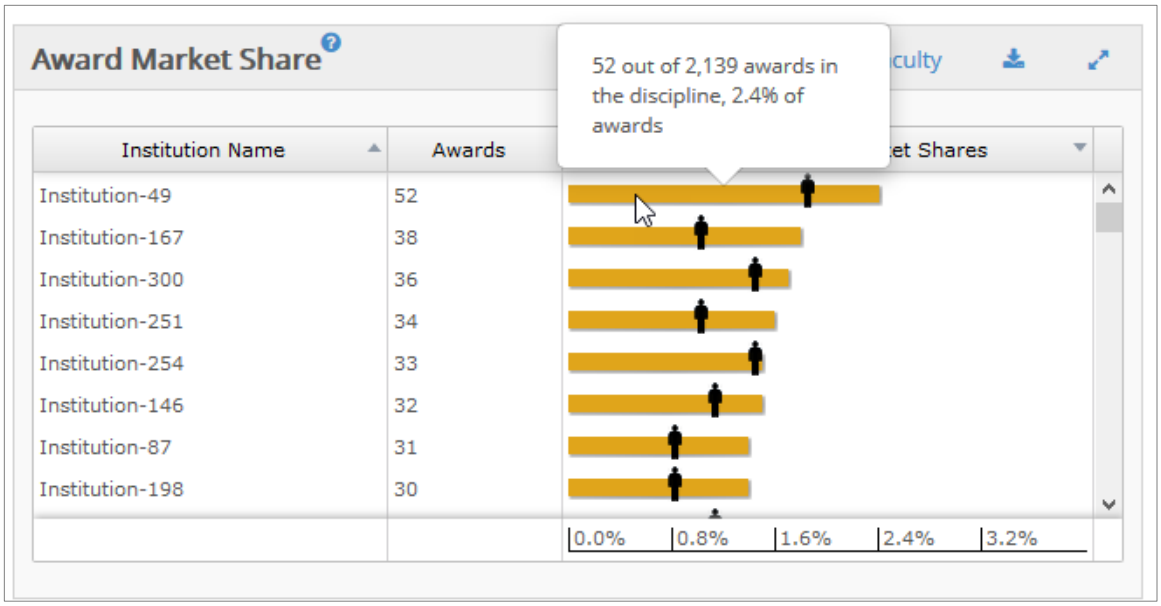
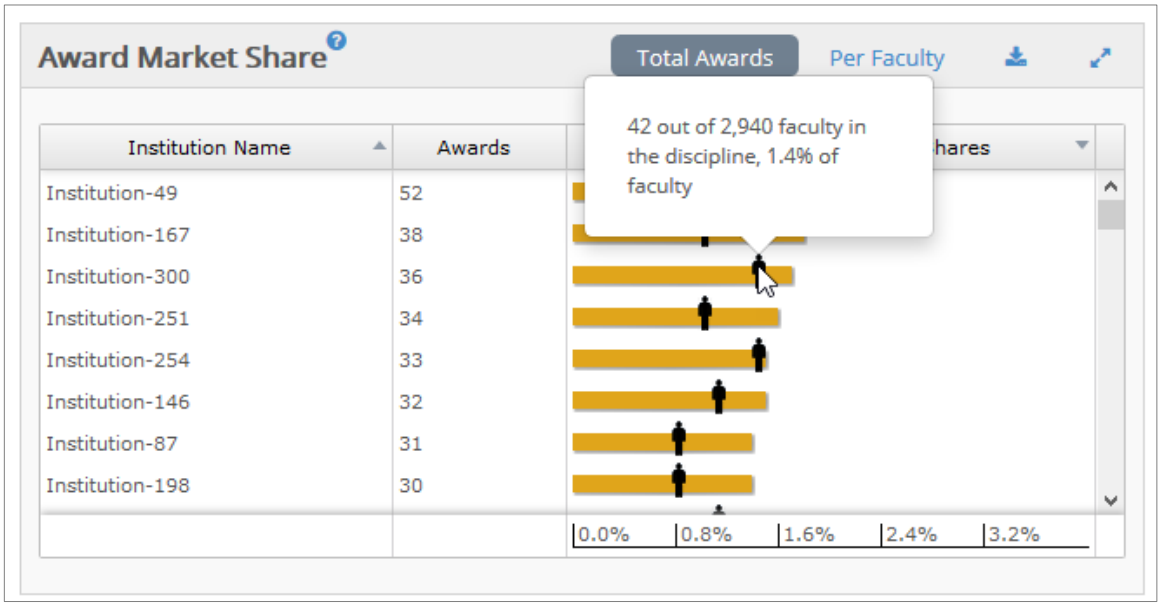
The second area is the Award Market share. The graph shows the institution name, the number of awards earned by program faculty within the discipline, and a chart whose bars and faculty icons represent the Award and Faculty Market Shares within the discipline, respectively. Hovering your cursor on an institution's bar displays the number of awards received, the total number of awards received within the discipline, and the percentage of institution awards received within the discipline.



Placing your cursor on the "faculty" icon for a particular institution will show the number of faculty in that unit, the total number of faculty in the discipline and the percentage of disciplinary faculty that unit faculty represent.



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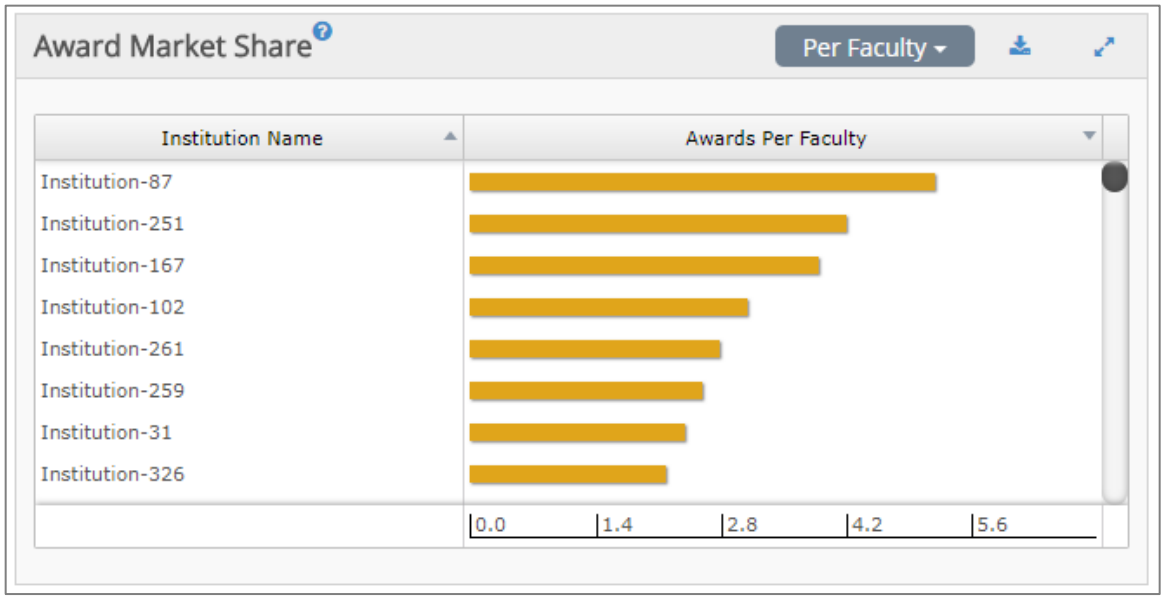
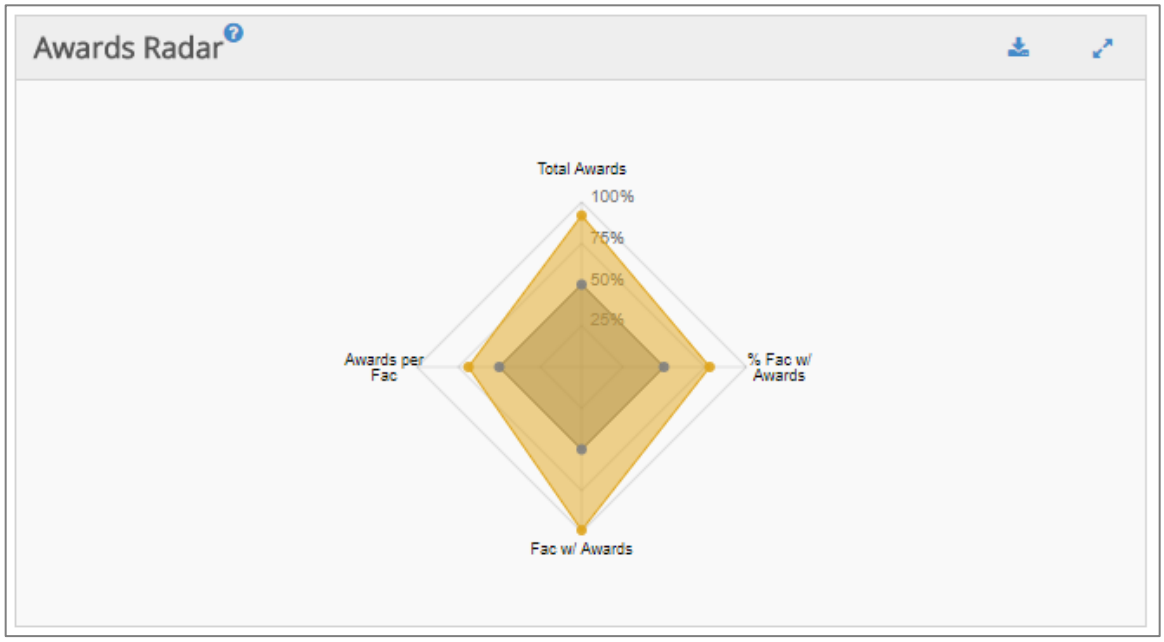
Selecting “Per Faculty” in the upper right drop-down menu displays the awards per faculty, within the discipline, at each institution. Hovering over the bar brings up the value for that institution.



Finally, the Awards Radar displays department awards performance against the comparative group over four metrics: Total Awards, Percentage of Faculty with an Award, Number of Faculty with an Award, and Awards per Faculty.



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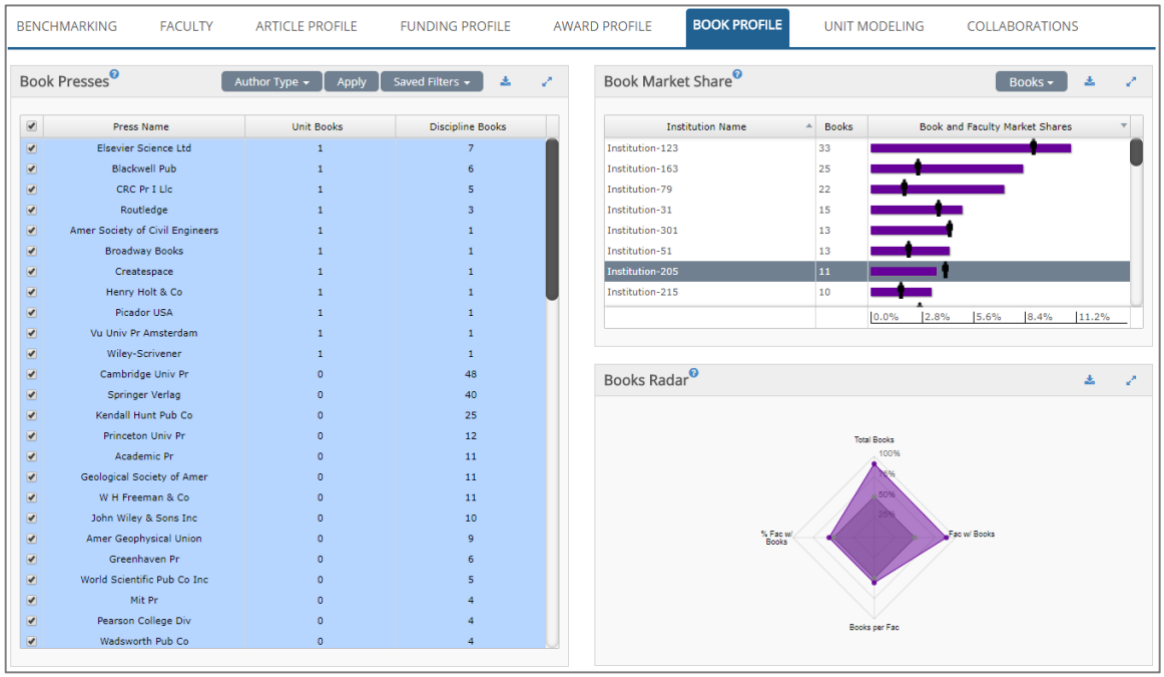
Book Profile

Consistent with the Article and Award Profiles, the Book Profile presents an analysis of discipline specific book publications in three sections: Book Presses, Book Market Share, and Books Radar.



The first section, Book Presses, lists the Press Name and the numbers of Department and Discipline Books published under each Press. This section can be filtered either by Author Type (Author, Editor, Translator) using the left most dropdown menu, or manually using the checkboxes to the left. After making a selection, click “Apply” to recalculate the Market Share and Radar sections. Custom Press sets can be saved using the “Saved Filters” drop-down menu.

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The Book Press Listing provides all book presses that have published at least one scholar in the selected discipline, the number of unit books, and the total number of books recorded for the discipline for the date range used. All columns are sortable A to Z and Z to A. The book press list is customizable. All book presses are preceded by a check box. Unchecking a box and clicking the "Apply" button removes the press from the list and from the Market Share and Radar charts. Custom views of the book press list can be saved and reused in other sessions.

Press Name	Unit Books	Discipline Books
Elsevier Science Ltd	1	7
Blackwell Pub	1	6
CRC Pr I Llc	1	5
Routledge	1	3
Amer Society of Civil Engineers	1	1
Broadway Books	1	1
Createspace	1	1
Henry Holt & Co	1	1
Picador USA	1	1
Vu Univ Pr Amsterdam	1	1
Wiley-Scrivener	1	1
Cambridge Univ Pr	0	48
Springer Verlag	0	40
Kendall Hunt Pub Co	0	25
Princeton Univ Pr	0	12
Academic Pr	0	11
Geological Society of Amer	0	11
W H Freeman & Co	0	11
John Wiley & Sons Inc	0	10
Amer Geophysical Union	0	9
Greenhaven Pr	0	6
World Scientific Pub Co Inc	0	5
Mit Pr	0	4
Pearson College Div	0	4
Wadsworth Pub Co	0	4

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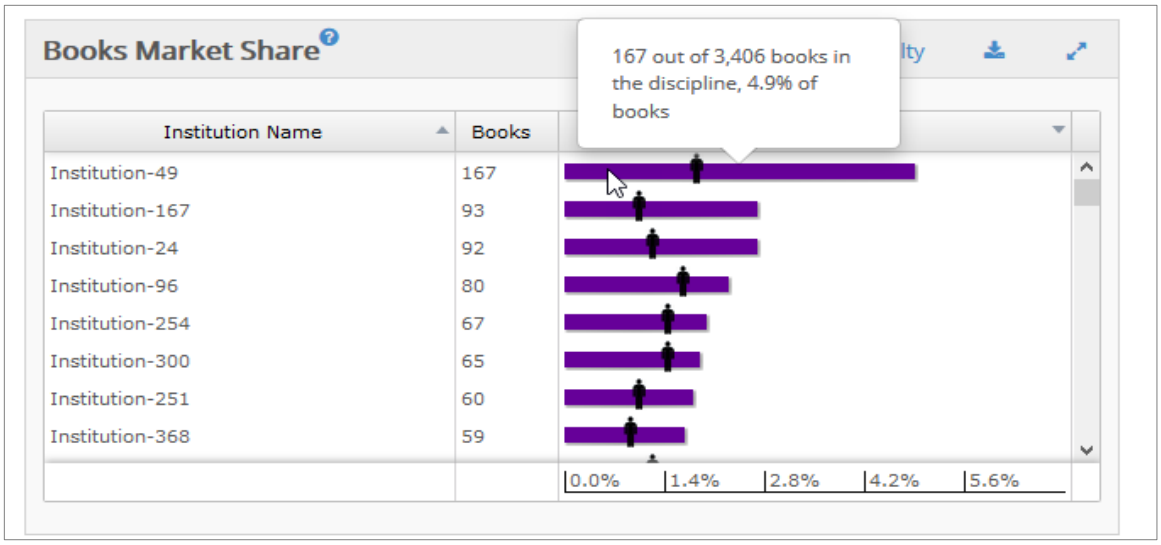
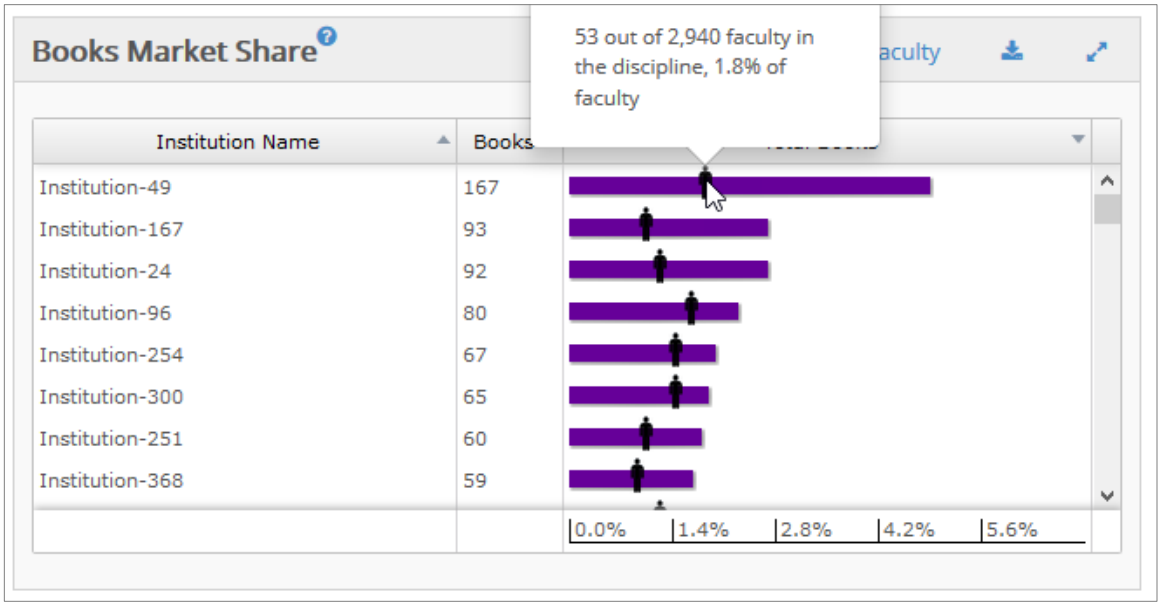
The Book Market Share section shows the Institution Name, number of Books published by that institution's department faculty within the discipline, and a chart where the faculty icons and bars represent the Faculty and Book Market Shares, respectively. Hovering over an institution's bar displays the number of books published by that institution, the total number of discipline books published, and the percentage of institution book publications within the discipline.



Placing your cursor on the "faculty" icon for a particular institution will show the number of faculty in that unit, the total number of faculty in the discipline and the percentage of disciplinary faculty that unit faculty represent.



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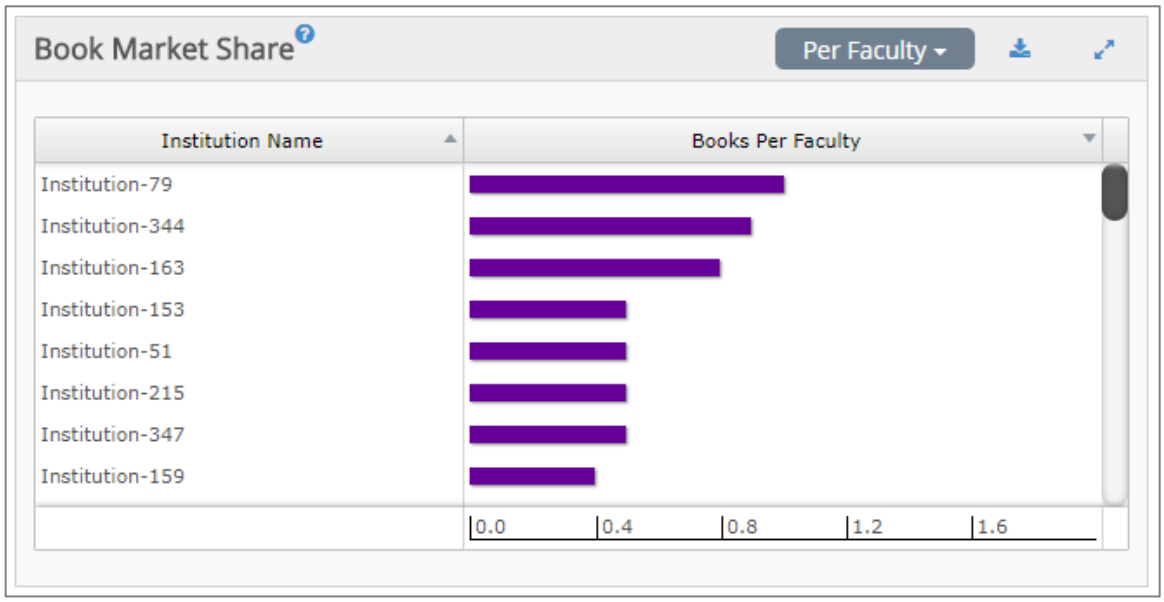
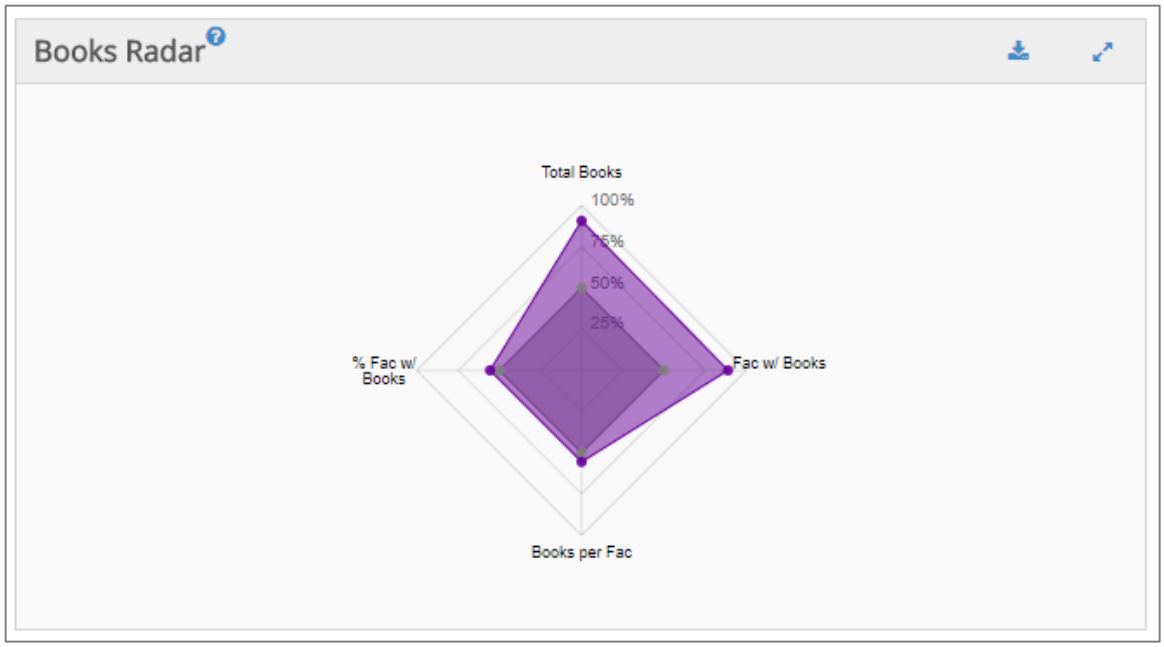
Selecting “Per Faculty” from the drop-down menu in the upper-right brings up a graphic showing book publications per faculty, within the discipline, for each institution. Hovering over a bar shows the value for that institution.



The Books Radar displays Department books performance against the national discipline over four metrics: Total Books, Percentage of Faculty with a Book, Number of Faculty with a Book, and Books per Faculty.



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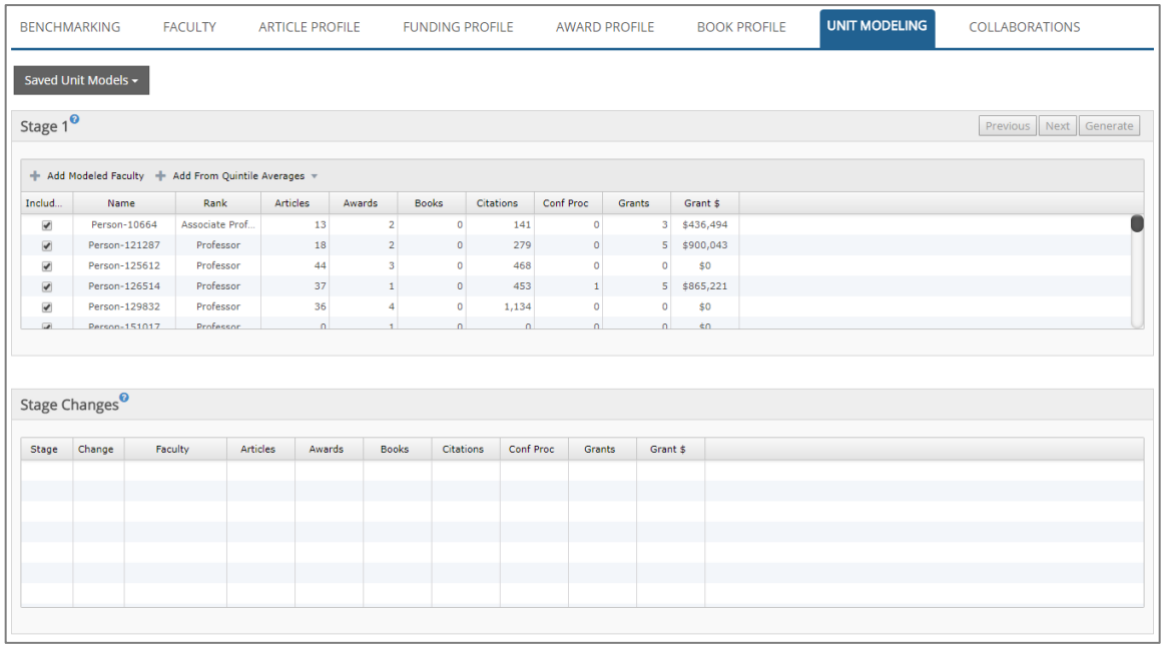
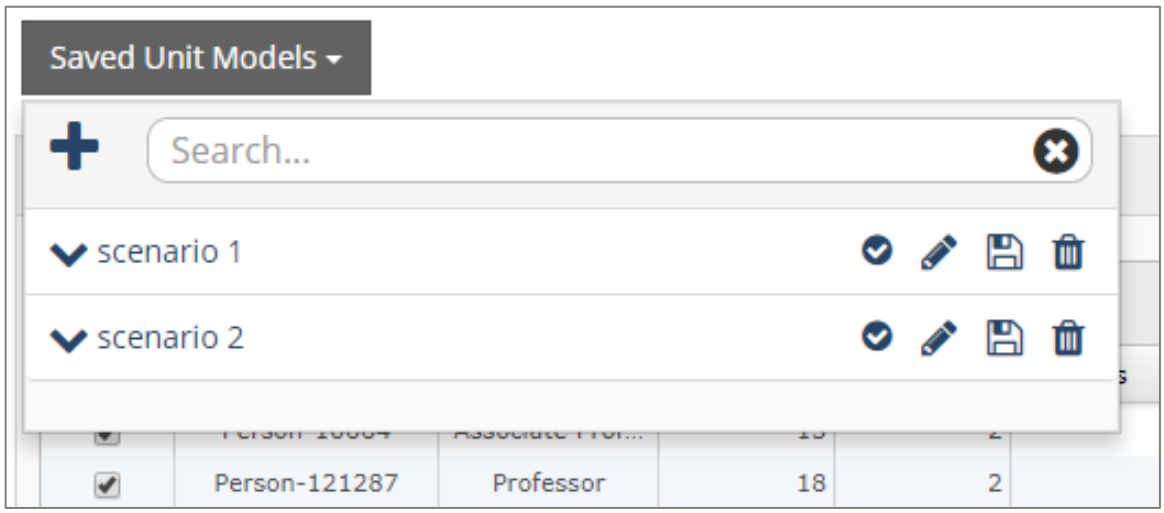
Unit Modeling

Unit Modeling allows the user to create “what if” scenarios showing the effects of losing current faculty, gaining new faculty, or a combination of the two. Comparative filters are applicable to unit modeling. Hence, unit modeling results will be calculated based on the peer group selected.



Users can load, update, or remove saved scenarios through the dropdown menu at the top of the Unit Modeling section. New scenarios can be saved by clicking:



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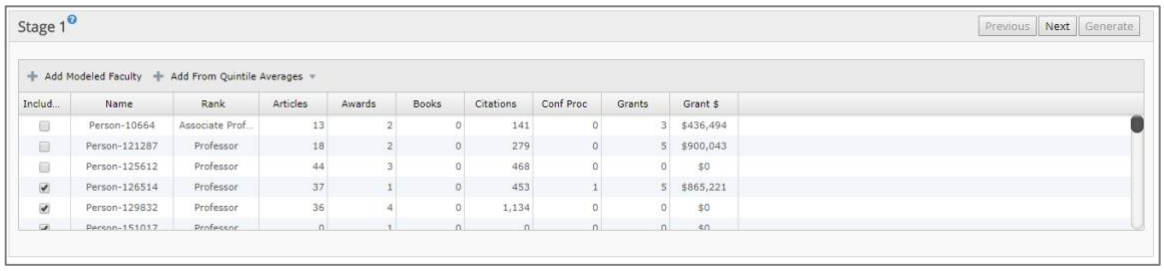
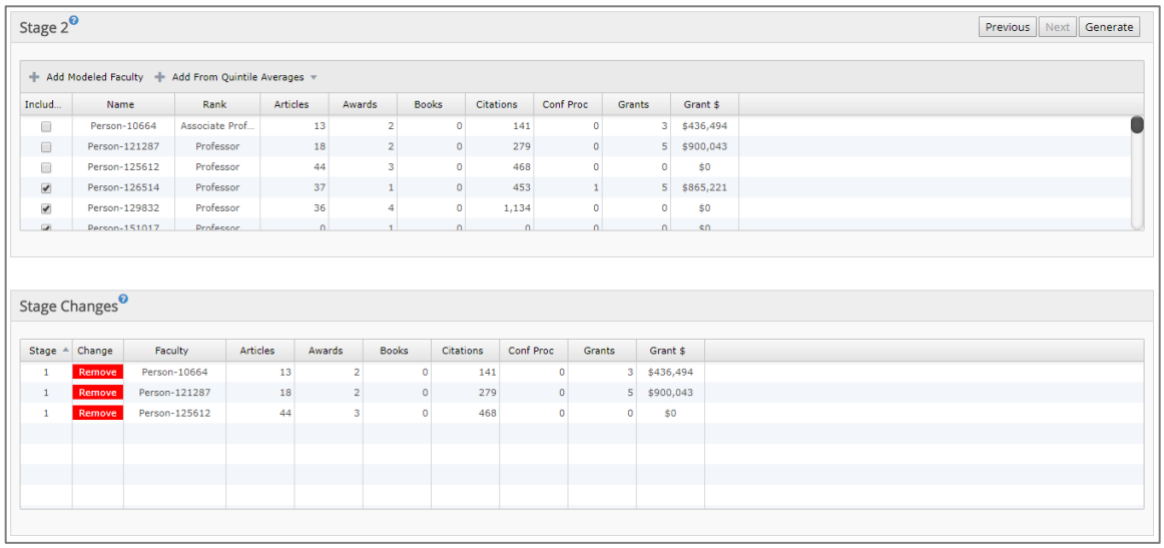
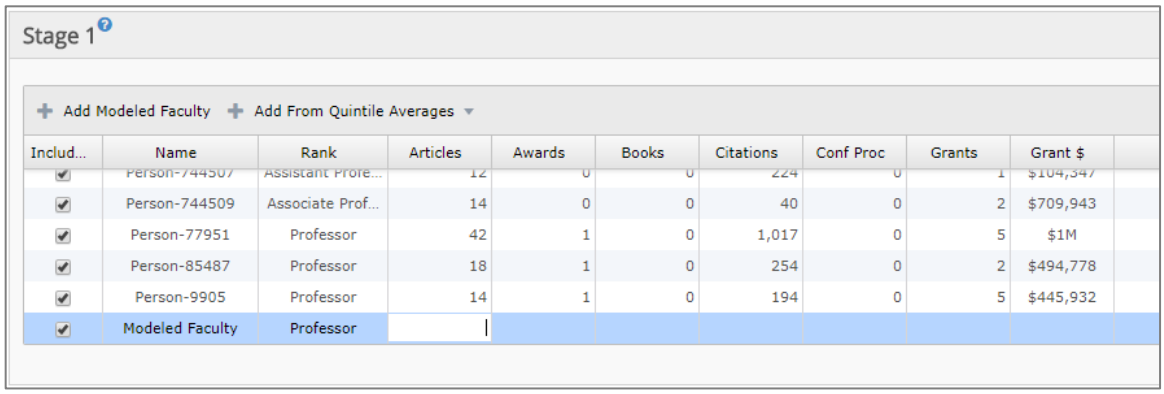
Scenarios are generated multiple ways. To model losing faculty, a list of department faculty, along with their scholarly activity, is presented on the left side of the page. A user unchecks the name of the individual(s) to be removed.



Click on “Next” in the upper right to display and review what actions will be taken, as well as enable Generation of the scenario. Clicking “Previous” allows editing previous stages.



Above the faculty list there are two ways with which to add faculty. The first is to add Modeled Faculty, where the user supplies rank and scholarly activity information within the Modeled Faculty table entry.



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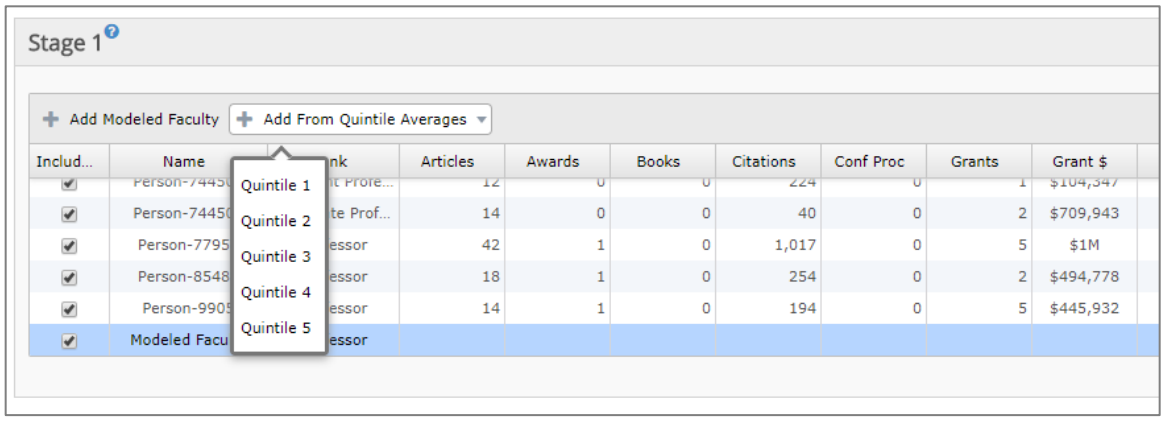
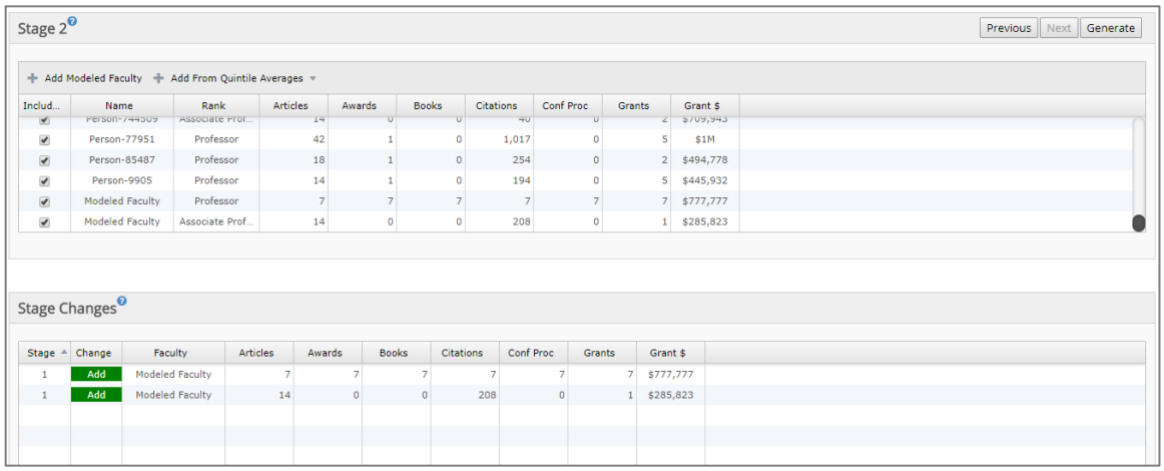
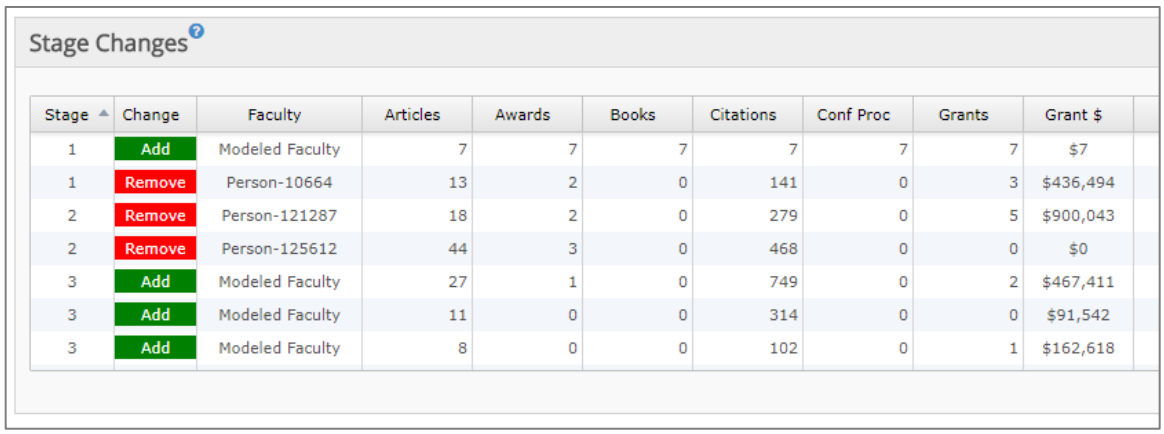
The second is to add from Quintile Averages for the comparative group, where the user selects which Quintile within the discipline that the scholarly activity is drawn from, as well as the rank of the added faculty.



Both kinds of additions will show up as “Modeled Faculty” within the faculty table. As before, clicking “Next” will display the changes, and enable generation of a scenario.



Multiple faculty may be both added and removed in a single stage. Multiple stages can be created to simulate change over time.



Stage	Change	Faculty	Articles	Awards	Books	Citations	Conf Proc	Grants	Grant $
1	Add	Modeled Faculty	7	7	7	7	7	7	$7
1	Remove	Person-10664	13	2	0	141	0	3	$436,494
2	Remove	Person-121287	18	2	0	279	0	5	$900,043
2	Remove	Person-125612	44	3	0	468	0	0	$0
3	Add	Modeled Faculty	27	1	0	749	0	2	$467,411
3	Add	Modeled Faculty	11	0	0	314	0	0	$91,542
3	Add	Modeled Faculty	8	0	0	102	0	1	$162,618

When all stages have been created, click “Generate” in the upper right to obtain the Unit Modeling analysis, containing comparisons of Productivity Radars, Quintiles, Box Plots, and Summary

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Tables. A drop-down menu in the upper right can be used to switch between views. For Radars and Quintiles, arrows to the right and left of the charts can be used to advance and reverse the stage comparisons, respectively.

The initial view contains contrasting Productivity Radar charts showing current unit activity and the first stage of modeling. Stage changes can be viewed below the chart.

Selecting “Quintiles” from the drop-down menu switches to the Quintiles view, which has the same interactions as the Productivity Radar. Added faculty are denoted by a dashed area within the appropriate Quintile and Rank.

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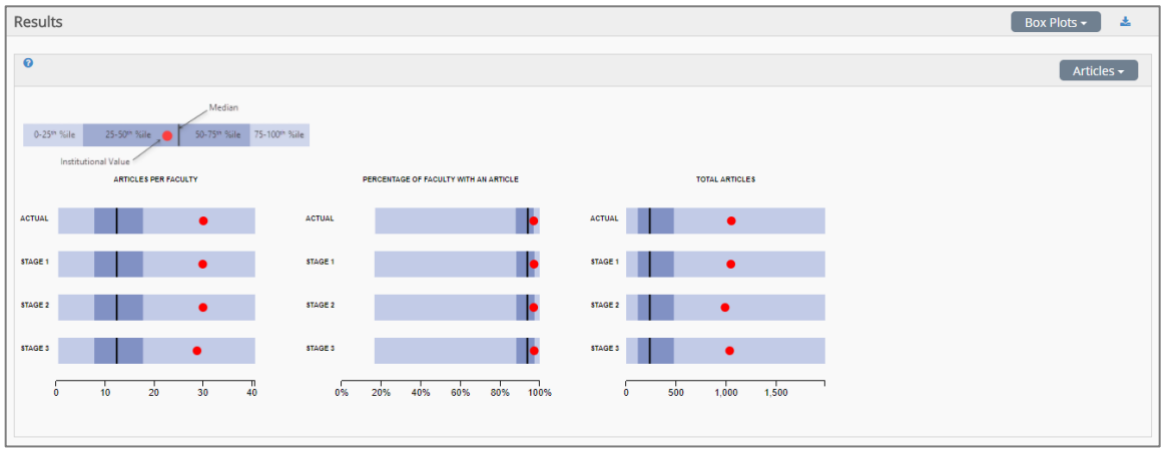
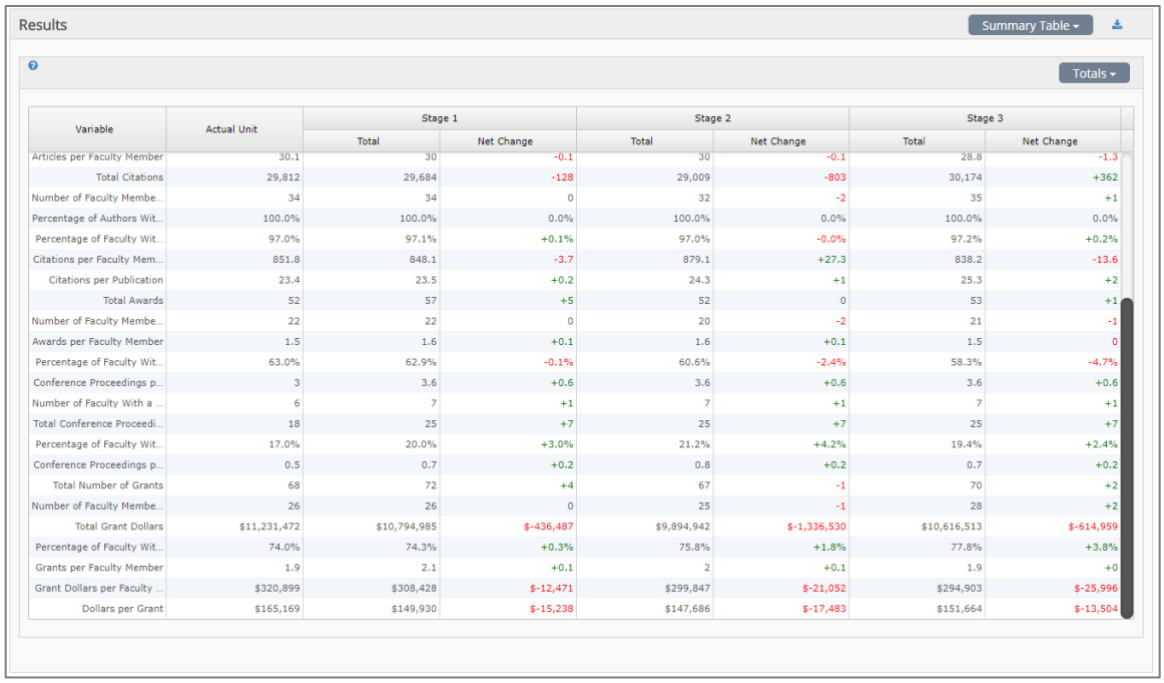
Selecting Box Plots will bring up separate box plots showing department activity in a vertical stack, with stages progressing from top to bottom. The user can switch between variables using the lower drop-down menu.



Selecting “Summary Table” will provide tables showing Totals, Rank, Z-Score, or Percentiles over 32 metrics. The lower right drop-down menu can be used to switch between those views. The table displays this data per stage, showing both the values and the net change from the current unit data to the given stage.



Variable	Actual Unit	Stage 1		Stage 2		Stage 3	
		Total	Net Change	Total	Net Change	Total	Net Change
Articles per Faculty Member	30.1	30	-0.1	30	-0.1	28.8	-1.3
Total Citations	29,812	29,684	-128	29,009	-803	30,174	+362
Number of Faculty Membe...	34	34	0	32	-2	35	+1
Percentage of Authors Wit...	100.0%	100.0%	0.0%	100.0%	0.0%	100.0%	0.0%
Percentage of Faculty Wit...	97.0%	97.1%	+0.1%	97.0%	-0.0%	97.2%	+0.2%
Citations per Faculty Mem...	851.8	848.1	-3.7	879.1	+27.3	838.2	-13.6
Citations per Publication	23.4	23.5	+0.2	24.3	+1	25.3	+2
Total Awards	52	57	+5	52	0	53	+1
Number of Faculty Membe...	22	22	0	20	-2	21	-1
Awards per Faculty Member	1.5	1.6	+0.1	1.6	+0.1	1.5	0
Percentage of Faculty Wit...	63.0%	62.9%	-0.1%	60.6%	-2.4%	58.3%	-4.7%
Conference Proceedings p...	3	3.6	+0.6	3.6	+0.6	3.6	+0.6
Number of Faculty With a ...	6	7	+1	7	+1	7	+1
Total Conference Proceedi...	18	25	+7	25	+7	25	+7
Percentage of Faculty Wit...	17.0%	20.0%	+3.0%	21.2%	+4.2%	19.4%	+2.4%
Conference Proceedings p...	0.5	0.7	+0.2	0.8	+0.2	0.7	+0.2
Total Number of Grants	68	72	+4	67	-1	70	+2
Number of Faculty Membe...	26	26	0	25	-1	28	+2
Total Grant Dollars	$11,231,472	$10,794,985	$-436,487	$9,894,942	$-1,336,530	$10,616,513	$-614,959
Percentage of Faculty Wit...	74.0%	74.3%	+0.3%	75.8%	+1.8%	77.8%	+3.8%
Grants per Faculty Member	1.9	2.1	+0.1	2	+0.1	1.9	+0
Grant Dollars per Faculty ...	$320,899	$308,428	$-12,471	$299,847	$-21,052	$294,903	$-25,996
Dollars per Grant	$165,169	$149,930	$-15,238	$147,686	$-17,483	$151,664	$-13,504

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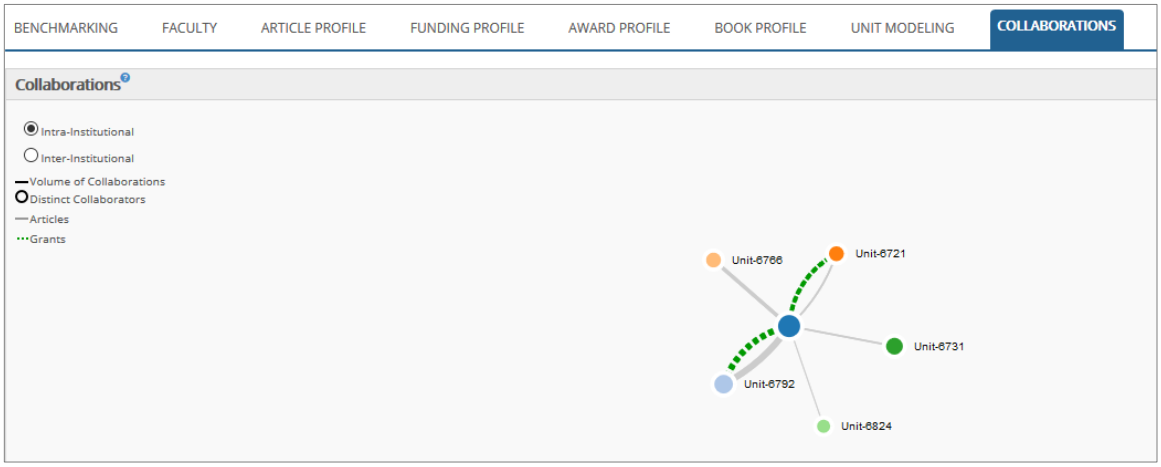
Collaborations

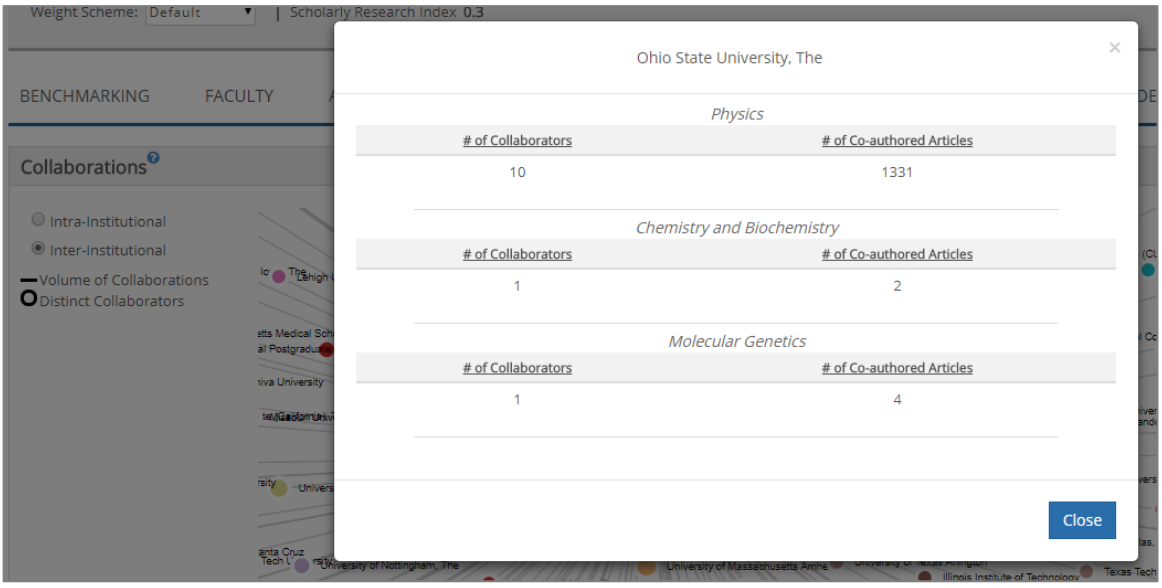
(Available to clients subscribing at the Master License Agreement level)

The Collaborations tool under department and program tabs of the Academic Analytics portal provides visualization of intra-institutional and inter-institutional faculty co-authorship of journal articles and Co-PI relationships on grants. The default is intra-institutional unit collaboration. Note: the application of custom peer filters will also be reflected in the Collaborations tool. Silver lines indicate co-authorship of journal articles. Dotted green lines indicate a Co-PI relationship on the same grant.

The view can be changed between Unit and Faculty in the upper right drop-down menu. In all views, clicking on a node will bring up collaborative information for that node. The graphic can be dragged through click-and-drag. Further, it can be zoomed using the mouse scroll wheel. Each view has a legend indicating volume of collaborations, number of collaborators, and color information when applicable.



Selecting the Inter-institutional button on the left side of the chart will produce a view of unit collaboration with all other institutions. Placing your cursor on an institution name will open a dialog box showing the name of the institution, the name of the collaborating unit, the number of collaborators and the number of co-authored articles produced.



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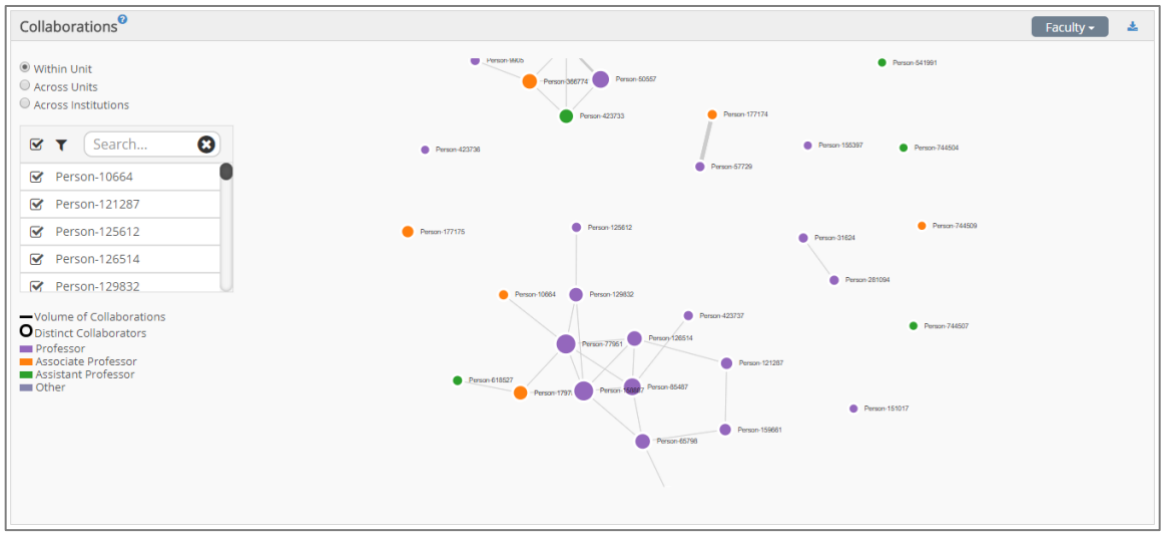
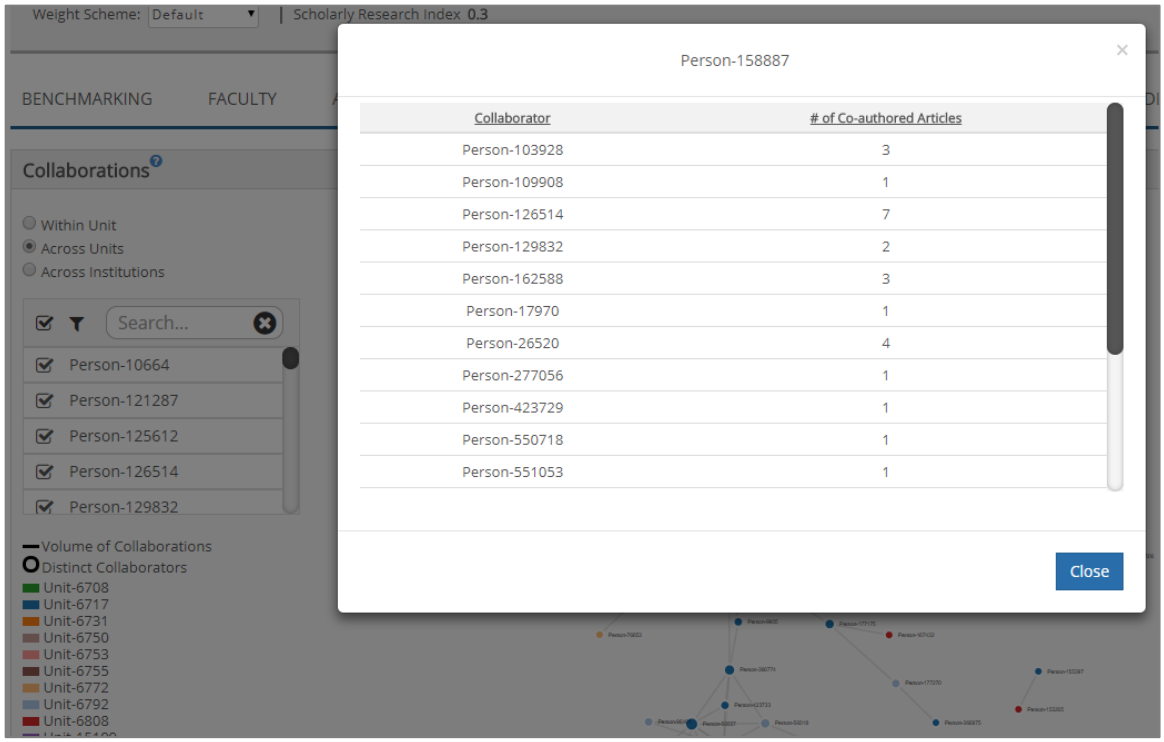
Clicking on Faculty changes the view to individual faculty names and gives the user the ability to view collaborations within the unit, across units and across institutions. Collaborations within the unit is the default. Clicking on the check box next to each faculty name allows the user to include/exclude specific faculty from the diagram.



Clicking on the Across Units button shows faculty collaborations across units within the institution. Clicking on an individual's name calls up a dialog box which contains the faculty member's name, number of articles, citations, books, grants, grant dollars and awards, the names of collaborators and the number of co-authored articles produced. Faculty rank, the volume of collaboration and distinct collaborations are indicated through the legend on the left of the chart.



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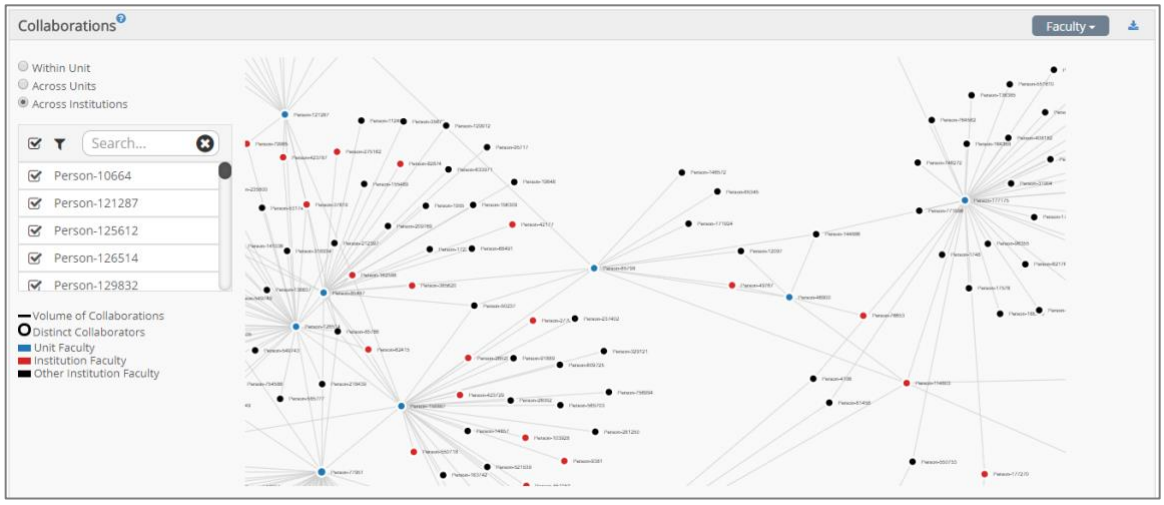
Clicking on the Across Institutions button produces a visualization of individual faculty collaborations across institutions. Use the scrolling wheel to zoom in or out to adjust the size of the plot. Placing your cursor on any individual's name calls up a dialog box which contains the faculty member's name, number of articles, citations, books, grants, grant dollars and awards, the names of collaborators and the number of co-authored articles produced. Faculty rank, the volume of collaboration and distinct collaborations are indicated through the legend on the left of the chart.

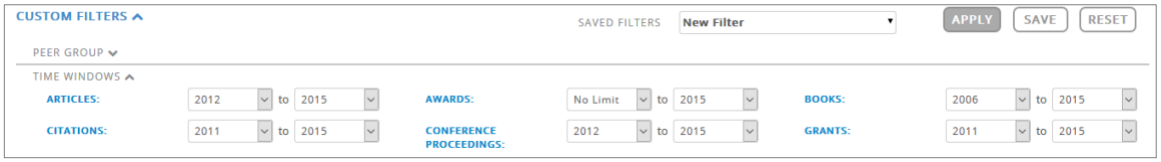


Programs

Custom Filters

The Program view begins with the Custom Filters drop-down menu across the top of the page. Expanding this drop-down menu displays Peer Group and Time Window filters.

Peer Group filters include AAU, Public/Private, State, Carnegie Classification, Land Grant, and manual selection of peer institutions. The last standard filter on the top of the page is Institutions. Clicking on Institutions brings up a list of all 412 institutions in the database and allows the user to select individual institutions which will create a custom comparative peer set. Users are also able to select multiple options for Carnegie and State peers in the Comparative filter.



Once you have selected your custom peer group, click on "Apply." After your custom peer set has been applied to the data, notice that the summary line of unit information has been changed to reflect this customization. The numbers of institutions, departments, and faculty members presented in blue are the custom summary numbers after application of the filter. Also note that the custom Scholarly Research Index score is presented in blue. Subsequent pages of the portal will reflect the application of the custom peer set.

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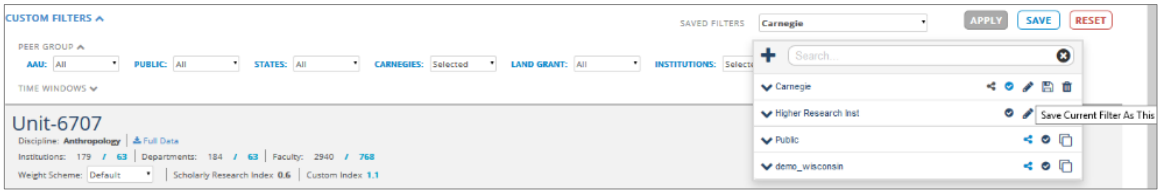
Also note that portal pages that are modified by the application of custom filters are indicated with the addition of a funnel symbol.

Clicking on “Save” brings up a dialog box which allows the user to name the filter to be saved.

Clicking on the “disk” icon on the right saves the filter.



Clicking “Reset” returns you to the default view.

Now, whenever you wish to view the data with that same filter, simply call up the filter from the drop-down menu and click “Apply Filter” circle with a check mark on the line containing the filter name. The custom peer set will be used for comparison on all subsequent pages of the portal.

The Time Windows filter in the Academic Analytics portal allows users to create their own snapshot of research activity using custom date ranges in place of default date ranges. Clicking on “Time Windows” opens a dialog box that shows the default time windows for the database release.

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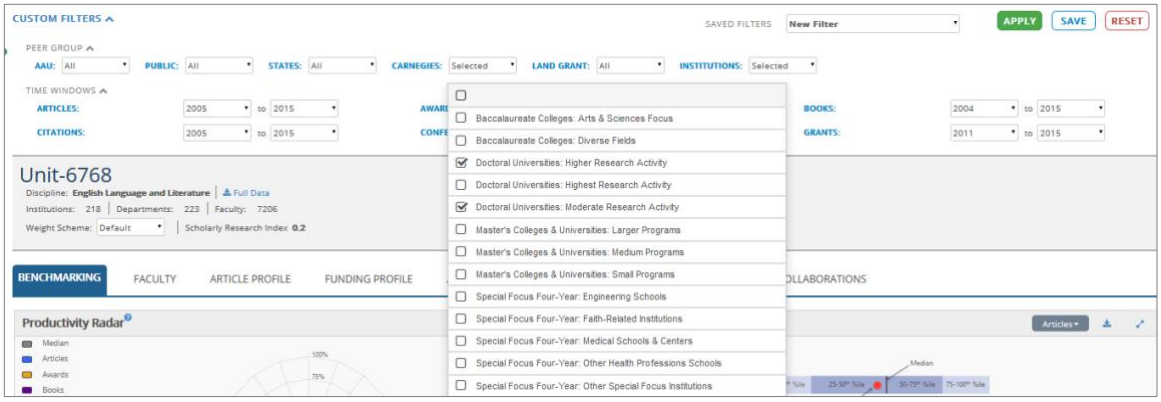
Time windows available for variables are:

Articles:	2006 – 2017.
Awards:	no limit – 2017.
Books:	2005 – 2017.
Citations:	2006 – 2017.
Conference Proceedings:	2006– 2017.
Grants:	2009 – 2017.

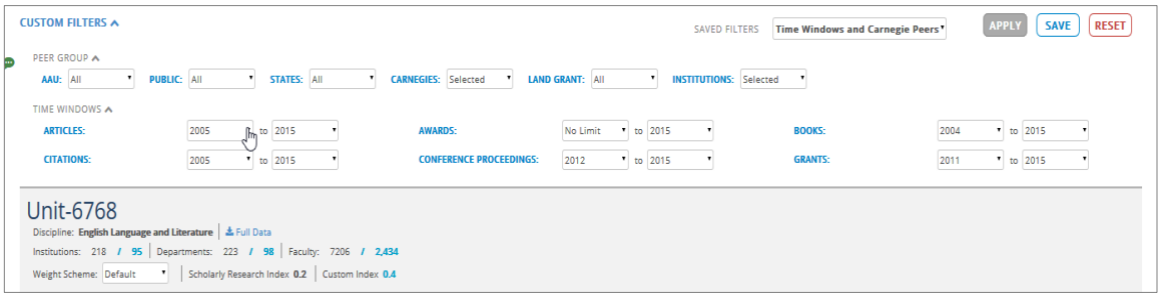
Custom time windows allow the user to change default values and use time frames that more fully reflect how the discipline is practiced for journal publications, citations, and books.

Let us further assume you wish to compare your unit to a custom peer set, selecting Carnegie classifications “Doctoral Universities, Moderate Research Activity” and “Higher Research Activity.”



Once peer set and date ranges have been selected, clicking “Apply” applies those custom filters to the view of the data and all subsequent pages and displays. Clicking on “Save” saves the custom date range filter for use at a later session. The “Reset” button returns the data view to default settings.

Once custom peers and time windows have been applied to the data, notice that the summary line of unit information has been changed to reflect this custom application. The numbers of institutions, programs, and faculty members presented in blue are the custom summary numbers after application of the filters. Also note that the custom Scholarly Research Index score is presented in blue.



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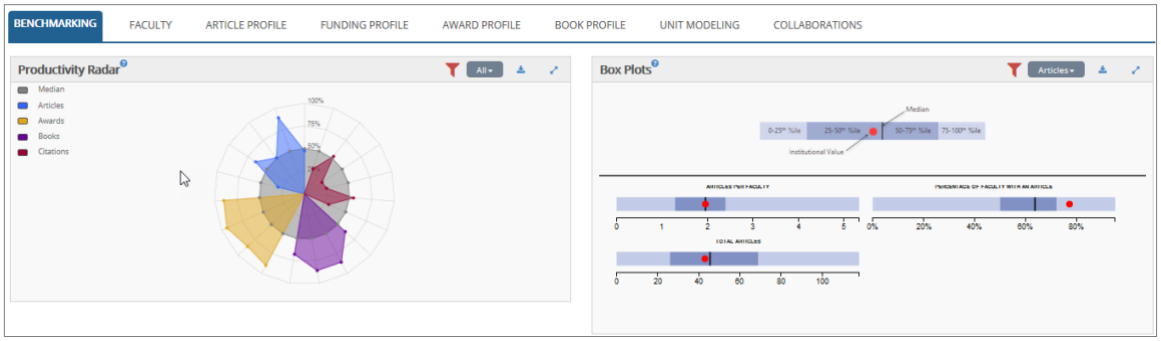
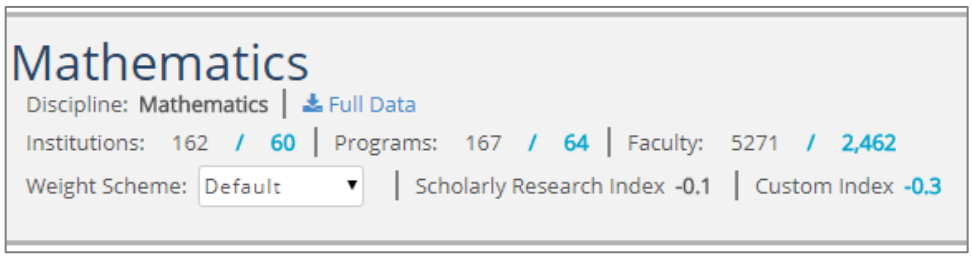
Subsequent pages of the portal will reflect the application of custom time windows and peers. Also note that portal pages that are the result of application of custom filters are indicated with the addition of a “funnel” symbol.



Now, whenever you wish to view the database with that filter, simply call up the filter from the drop-down menu and click the “Apply Filter” circle with a check mark on the command line containing the filter name. The custom time windows and peer set will be used for comparison on all subsequent pages of the portal.

The unit header contains discipline specific information and a link to the Full Data download. Below the Program name is the name of the discipline into which it is classified. Programs that have several disciplines as possible classifications, such as Mathematics and Statistics, will present multiple disciplines in a drop-down menu. After the discipline, the number of institutions, programs, and faculty within the discipline is shown. Following this are the weight scheme drop-down menu (customizable) and the Scholarly Research Index for the program within the discipline. If custom filters are applied, the same information is shown in blue to the right of the national data. The effects of any applied filters are reflected in the Full Data download.



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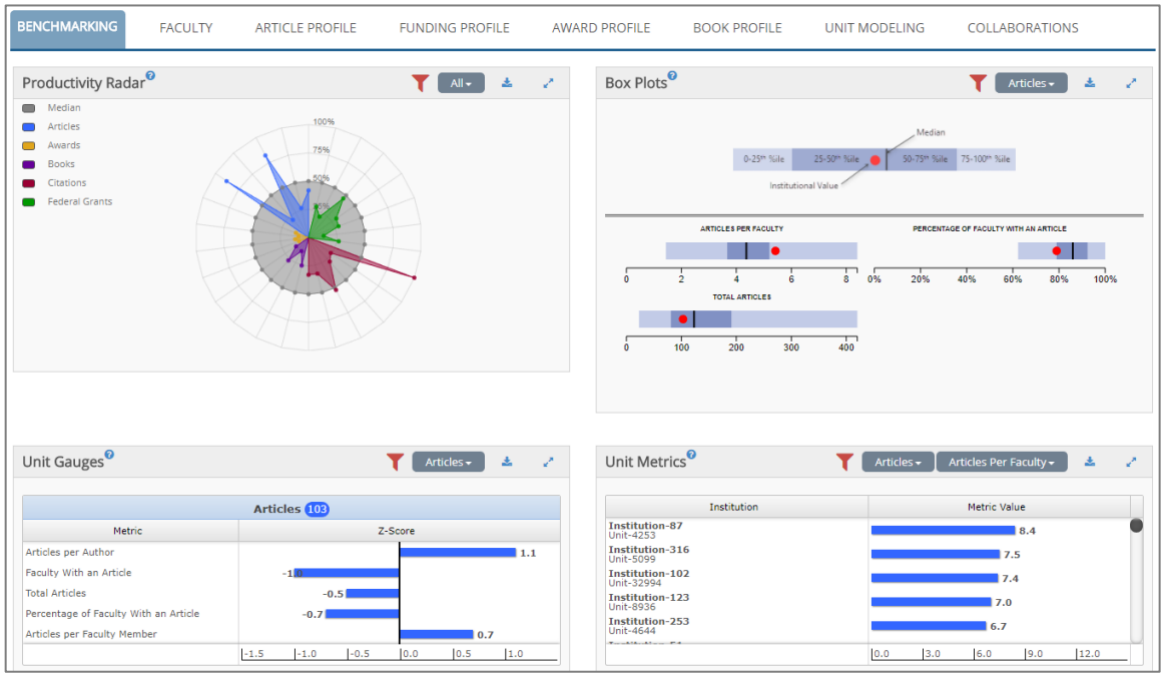
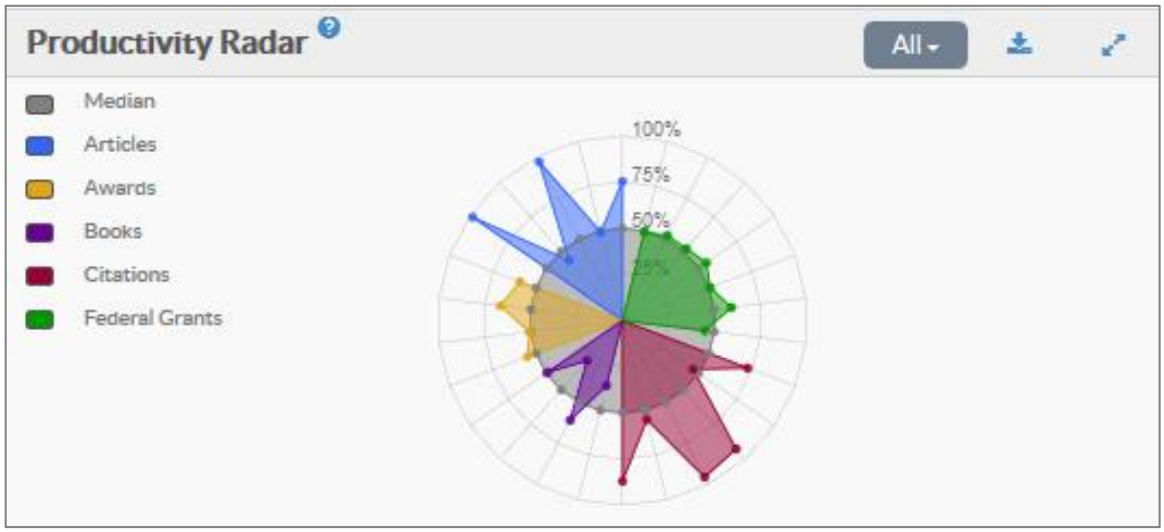
Program Benchmarking

The Benchmarking Overview is the default view. Other views listed across the page are: Faculty, Article Profile, Funding Profile, Award Profile, Book Profile Unit Modeling, and Collaborations.

The Benchmarking page presents the Program Productivity Radar, Box Plots, Unit Gauges, and Unit Metrics.



The Program Productivity Radar presents program research activity on all metrics against the median of the comparative group, national by default. By clicking on All in the upper right-hand corner, the user may select a specific variable to examine. Selections available are: Articles, Awards, Books, Citations, Conference Proceedings, and Grants.



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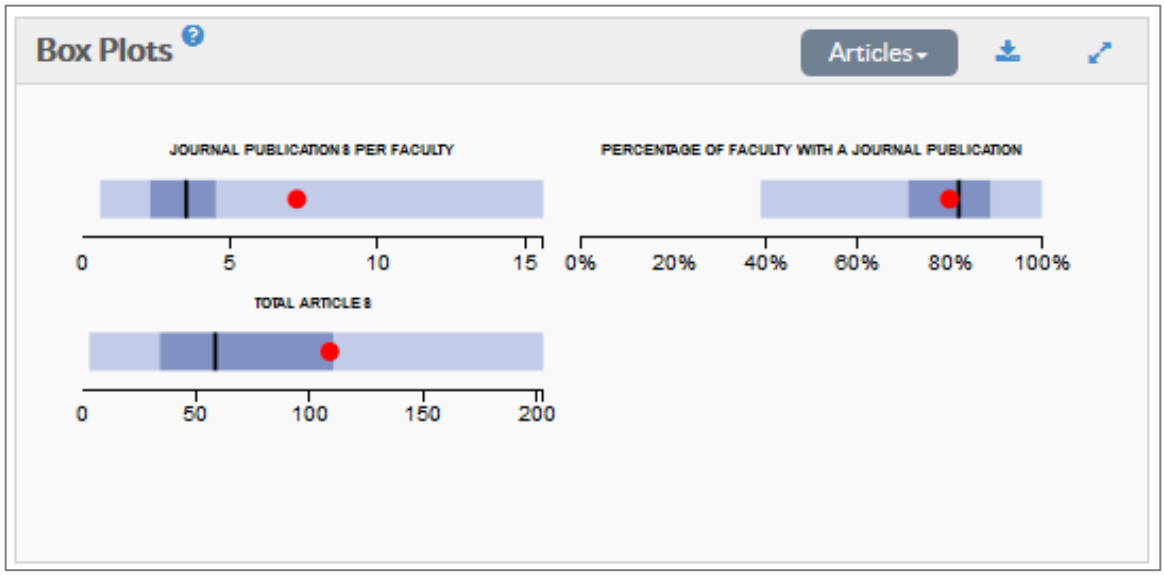
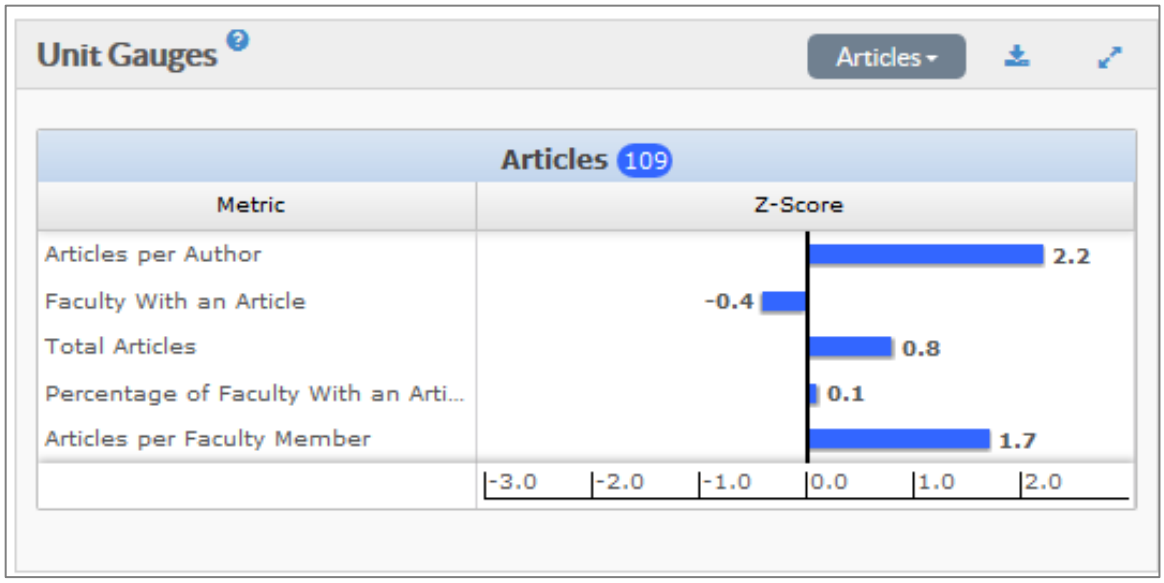
Box Plots provide distributions of key metrics for the selected variable. Clicking on the variable listed in the top right-hand corner exposes a drop-down menu of available variables.



Unit Gauges present the program's Z-Score performance for each metric of the selected variable. Variables include Articles, Awards, Books, Citations, Conference Proceedings and Grants. Clicking on the metric family in the top right-hand corner of the Unit Gauge opens a drop-down menu with all available variables. The count of the selected variable is displayed in the center of the gauge.



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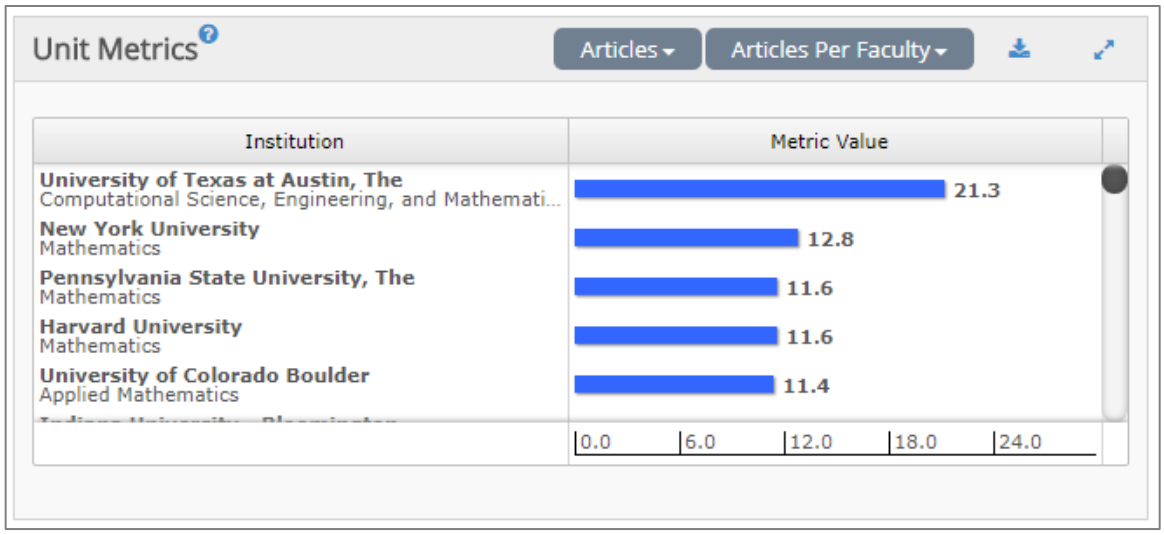
Unit Metrics shows each peer program at each institution in the comparative group. Metrics are available for each variable appropriate to the discipline. This includes Articles, Awards, Books, Citations, Conference Proceedings, and Grants. The drop-down menus in the upper right can be used to select a specific combination of variable and metric.



Program Faculty

Clicking on Faculty opens the Faculty page which begins by showing a detailed list of unit faculty, a Career Progression chart for the discipline, and a Quintiles chart for the discipline.

The Unit Faculty list provides the faculty name, rank, terminal degree and date of degree. There is also a percentile chart for volume of activity within the discipline, which includes the number of Articles, Awards, Books, Citations, Conference Proceedings, Grants, and Grant Dollars.

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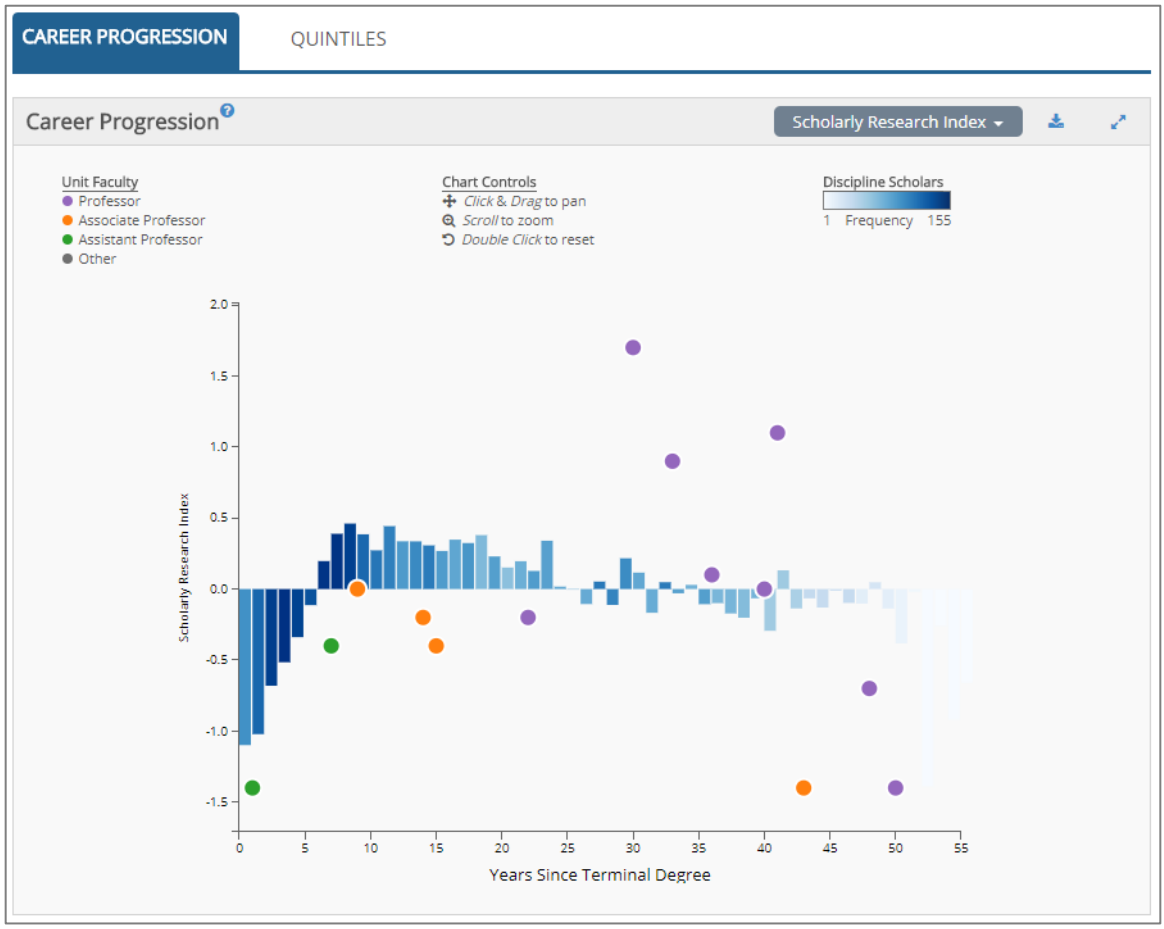
Career Progression

The Career Progression Chart plots the program faculty within a discipline as dots over the progression graph – faculty are color coded by rank. The Y-axis represents a Z-Score when a variable is selected; by default, the Scholarly Research Index is shown. The X-axis represents years since terminal degree. Use the drop-down menu in the upper right to switch between selections. Placing your cursor over a dot representing an individual will reveal that person's name, years since terminal degree and the individuals overall Scholarly Research Index or Z-Score for the variable under consideration.



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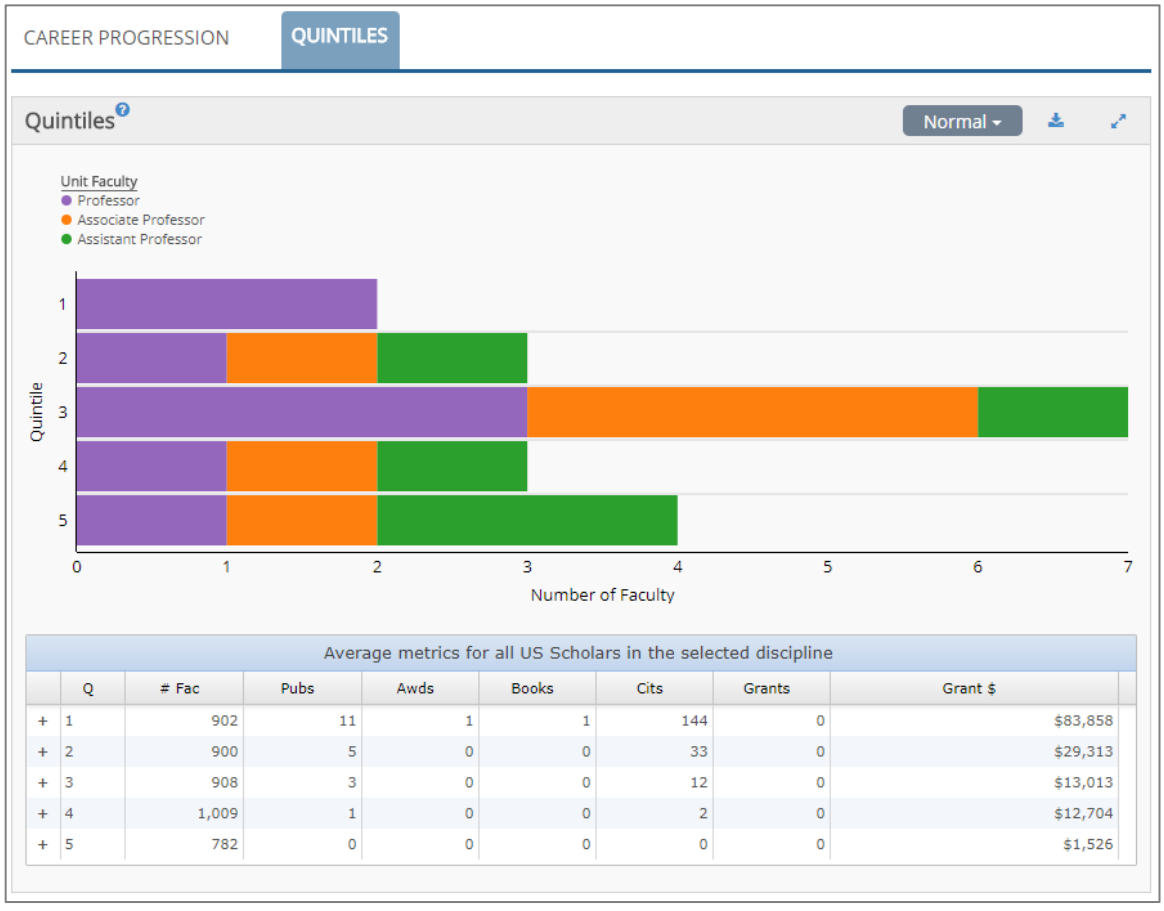
Quintile Analysis

Academic Analytics captures national data on all faculty research activity within a discipline and attaches those data to individual faculty members. Hence, Academic Analytics is able to organize and rank individual faculty based on their research activity within their discipline. We have organized faculty into 20% bands, or quintiles, for presentation of these data. This tool provides a picture of research activity in the discipline through a description of each of the quintiles in terms of:

Average Citations
Average Journal Articles
Average Awards
Average Books
Average Number of Grants
Average Annual Grant Dollars

Clicking on Quintiles brings up a quintiles chart for program faculty. Normal is the default setting. The Normal setting displays faculty research activity divided into five quintiles color coded by rank. A chart below the quintile display defines the five quintiles in terms of number of faculty in each quintile, average number of publications, awards, books, citations, conference proceedings, grants and grant dollars per quintile.



Average metrics for all US Scholars in the selected discipline

	Q	# Fac	Pubs	Awds	Books	Cits	Grants	Grant $
+	1	902	11	1	1	144	0	$83,858
+	2	900	5	0	0	33	0	$29,313
+	3	908	3	0	0	12	0	$13,013
+	4	1,009	1	0	0	2	0	$12,704
+	5	782	0	0	0	0	0	$1,526

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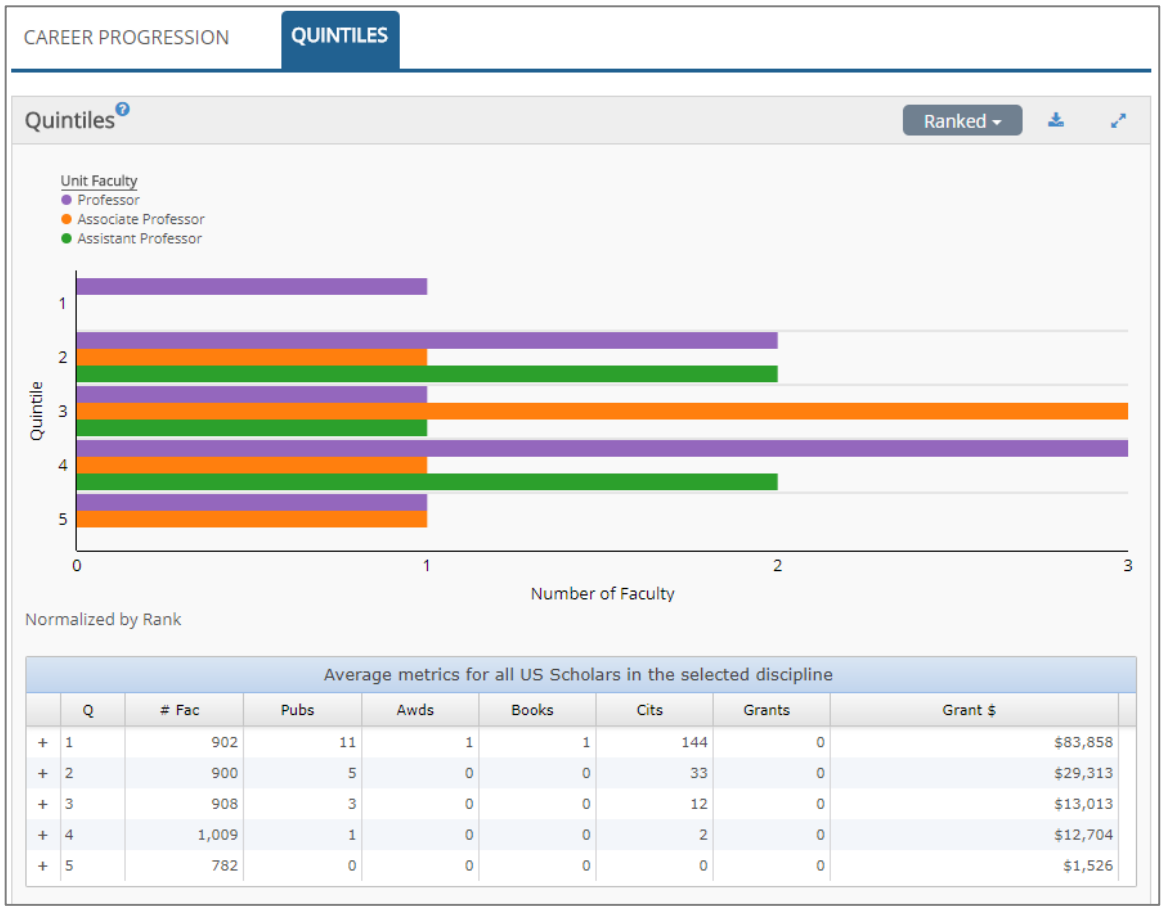
Selecting “Ranked” in the drop-down menu brings up a quintiles chart showing faculty quintile placement by rank. All discipline faculty members have been separated out by academic rank. They have been organized into five quintiles according to their Scholarly Research Index within their rank.



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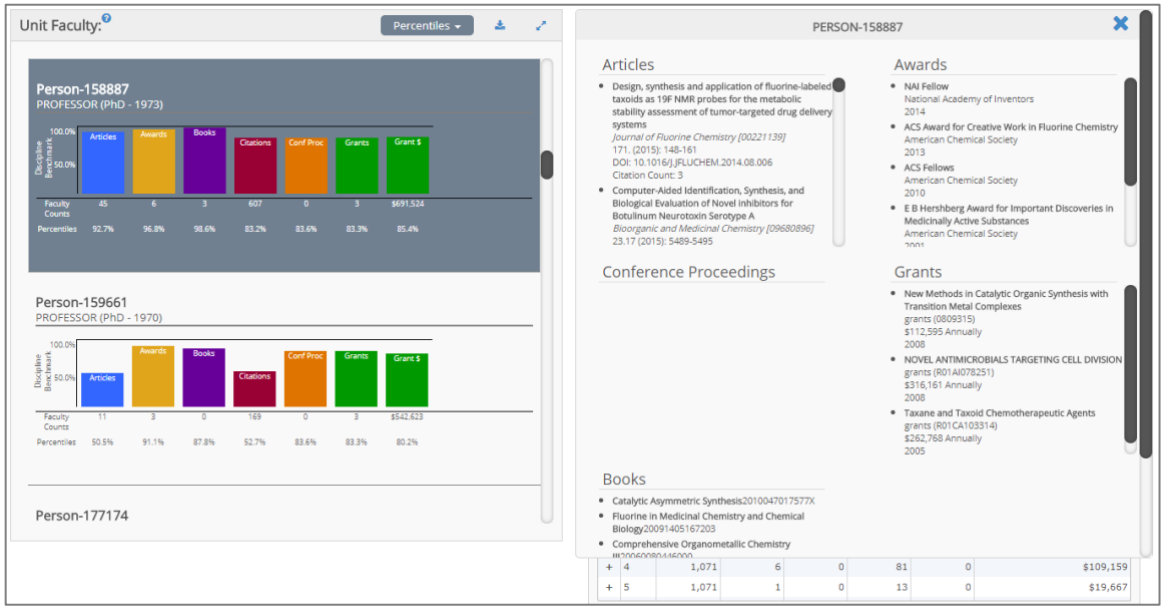
Detail Data

Clicking on an individual's name in the faculty list brings up detail data for that individual's research activity. Detail data include:

Articles - bibliographic record and CrossRef citation counts
Conference Proceedings - bibliographic record and CrossRef citation counts
Books - bibliographic record and ISBN
Awards - award name, granting society, and date
Grants - grant name, number, dollar amount, and dates



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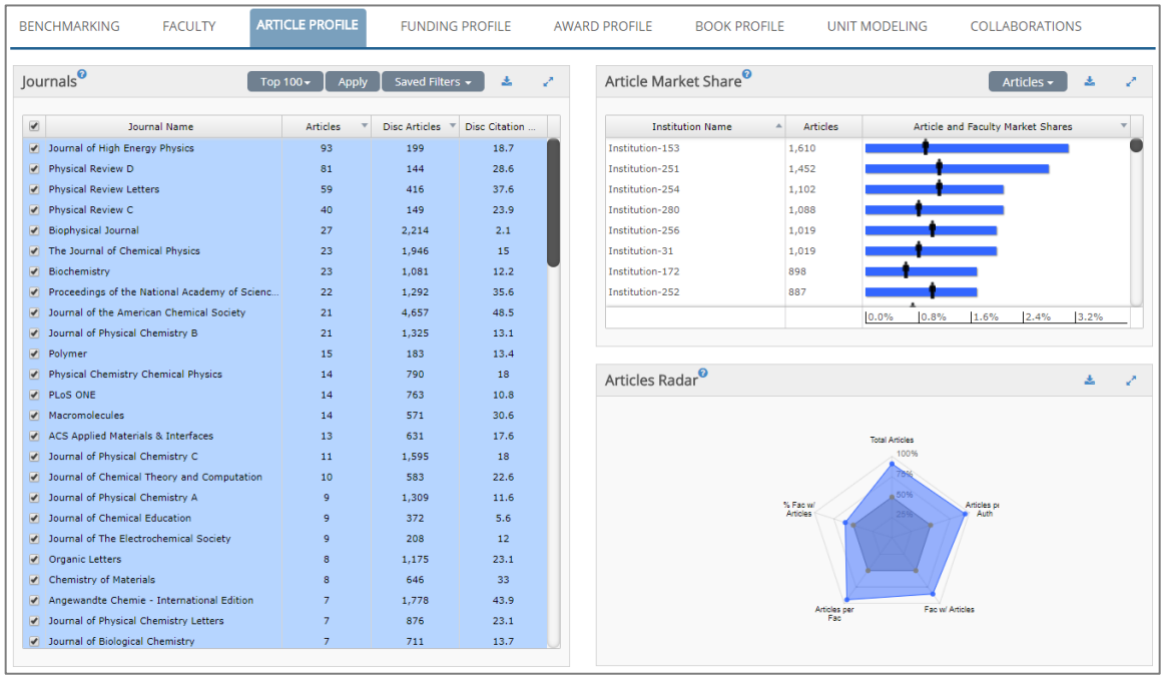
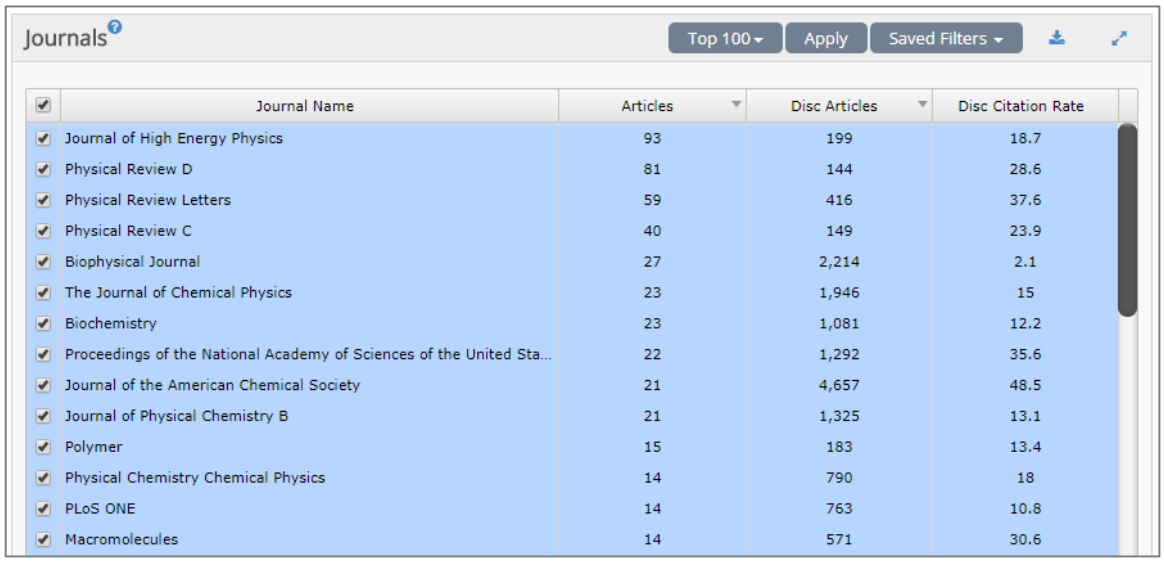
Article Profile

There are three sections to the Article Profile page: Journals, Article Market Share, and Articles and Citations Radar.



First, the Journals section provides a listing of all journal titles associated with the discipline, along with the number of program Articles, discipline Articles, and discipline Citation Rate. The journal list is customizable. The user can select the Top 20 or Top 100 journals by volume, or All journals associated with the discipline or create a unique list. All journal titles are preceded by a check box. Checking the box keeps the journal title in the disciplinary list; unchecking a box removes the title from the disciplinary list. Clicking on the “Apply” button then reconfigures the journal title list and the resulting two charts. Custom views of the journal title list can be saved and reused in other sessions.



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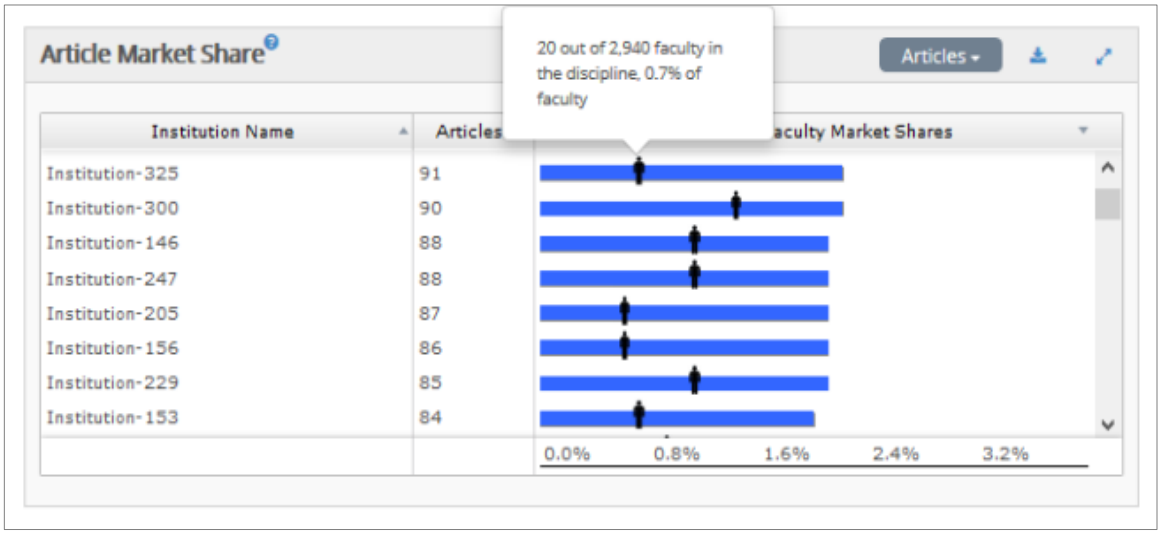
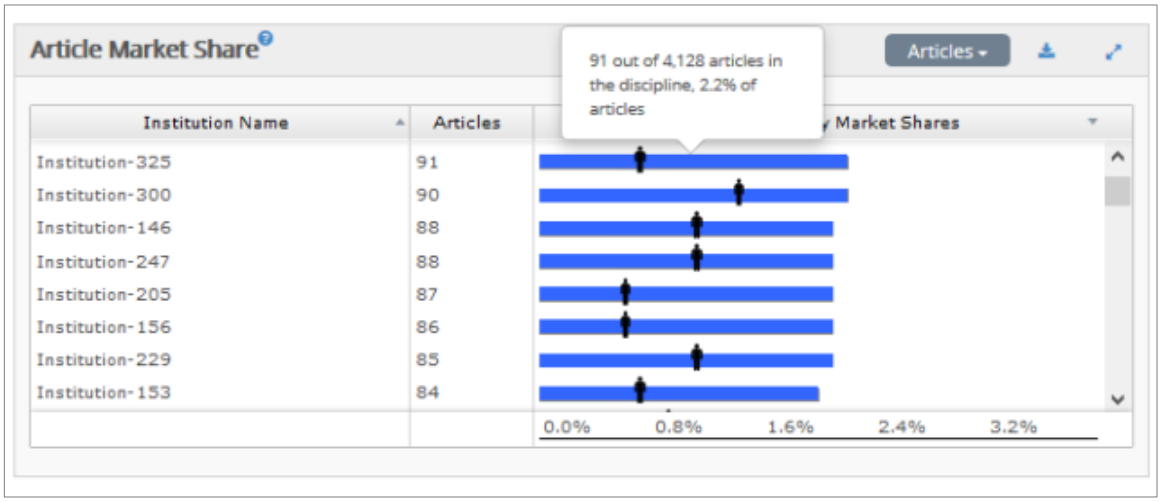
The second section is the Article Market Share. The chart shows the institution name and number of articles, followed by a bar chart showing the percentage of articles within the disciplinary literature, along with a faculty icon representing the percentage of faculty within the discipline. Placing your cursor on the icon for institution faculty will show the number of institution faculty in the discipline, the total number of faculty in the discipline and the percentage of disciplinary faculty that institution faculty represent.



Hovering over the bar will display similar information for Articles.



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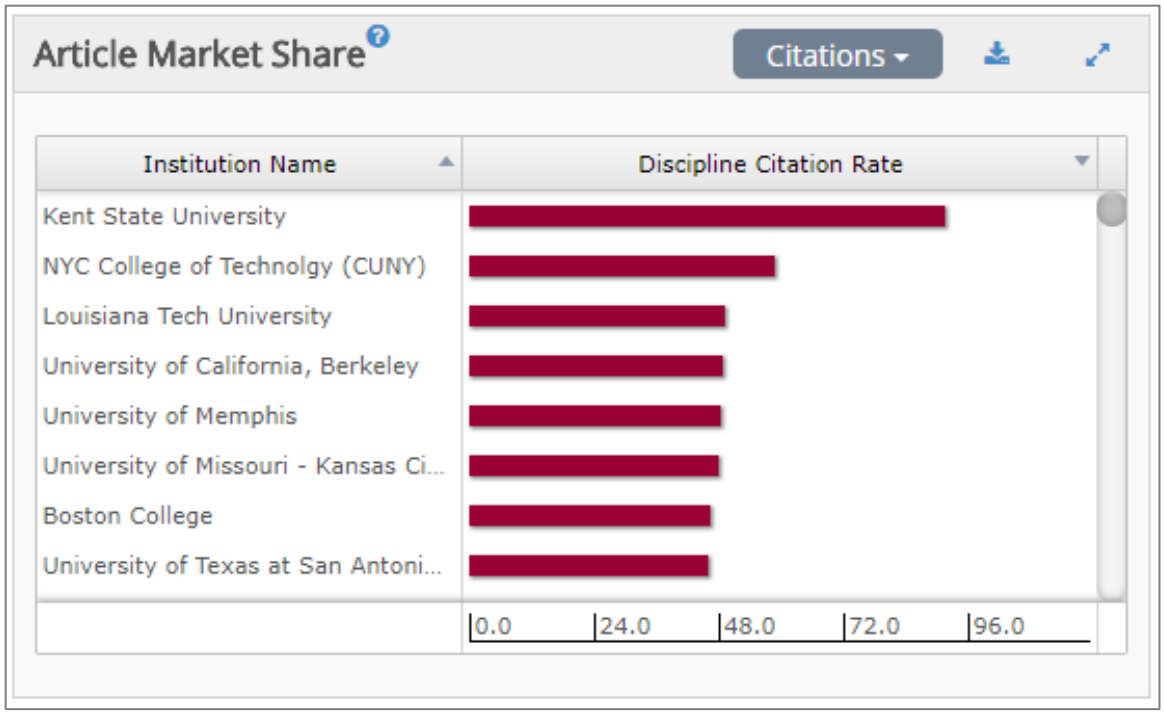
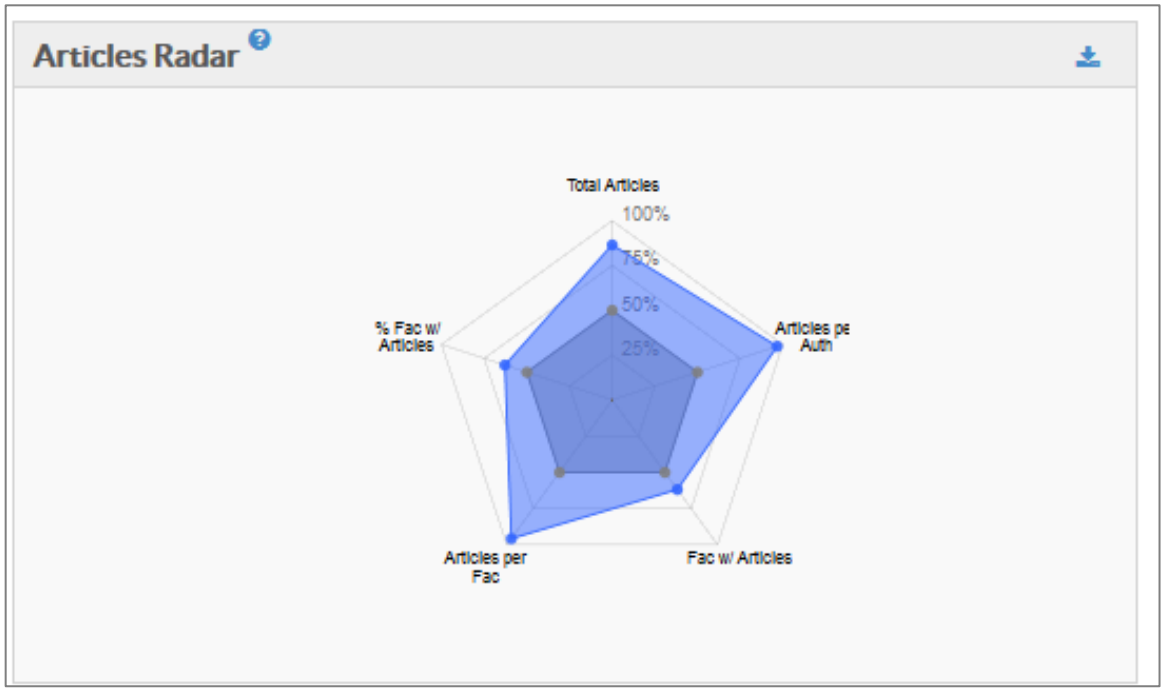
Selecting “Citations” from the drop-down menu in the upper right corner changes the view to citations and presents each institution and its citation rate within the disciplinary literature.



The Articles and Citations Radars swap along with the selection in the Article Market Share. The Articles Radar presents a radar chart showing percentages for the following metrics: Total Articles, Articles per Author, number of Faculty with Articles, Articles per Faculty, and Percentage of Faculty with an Article.



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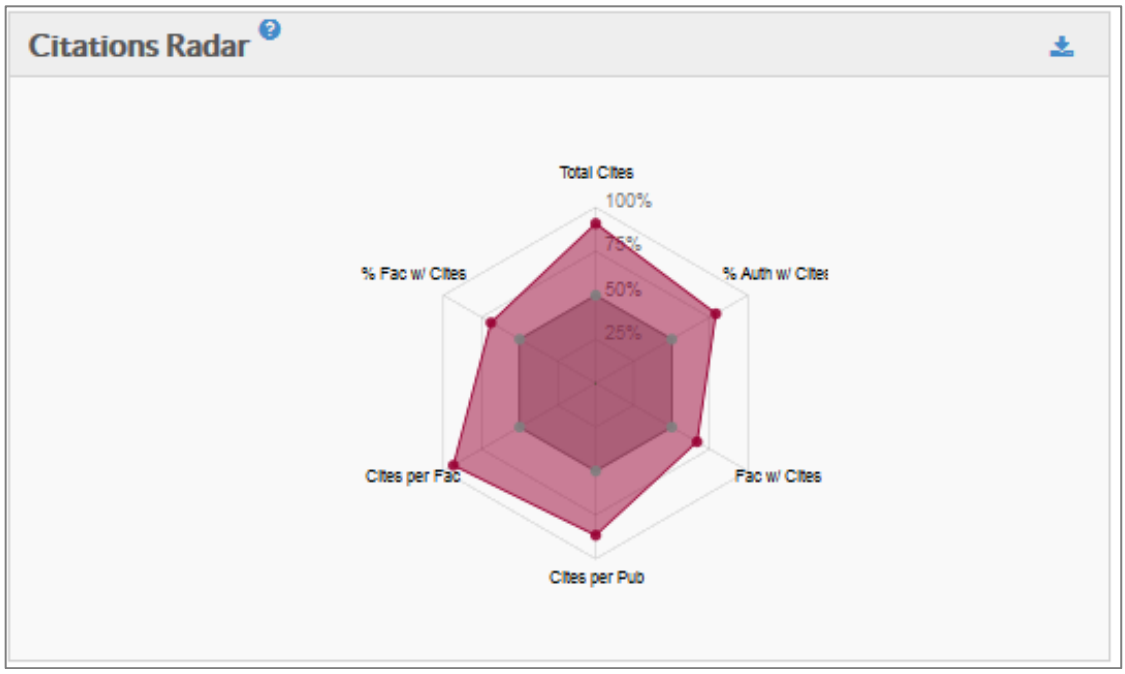
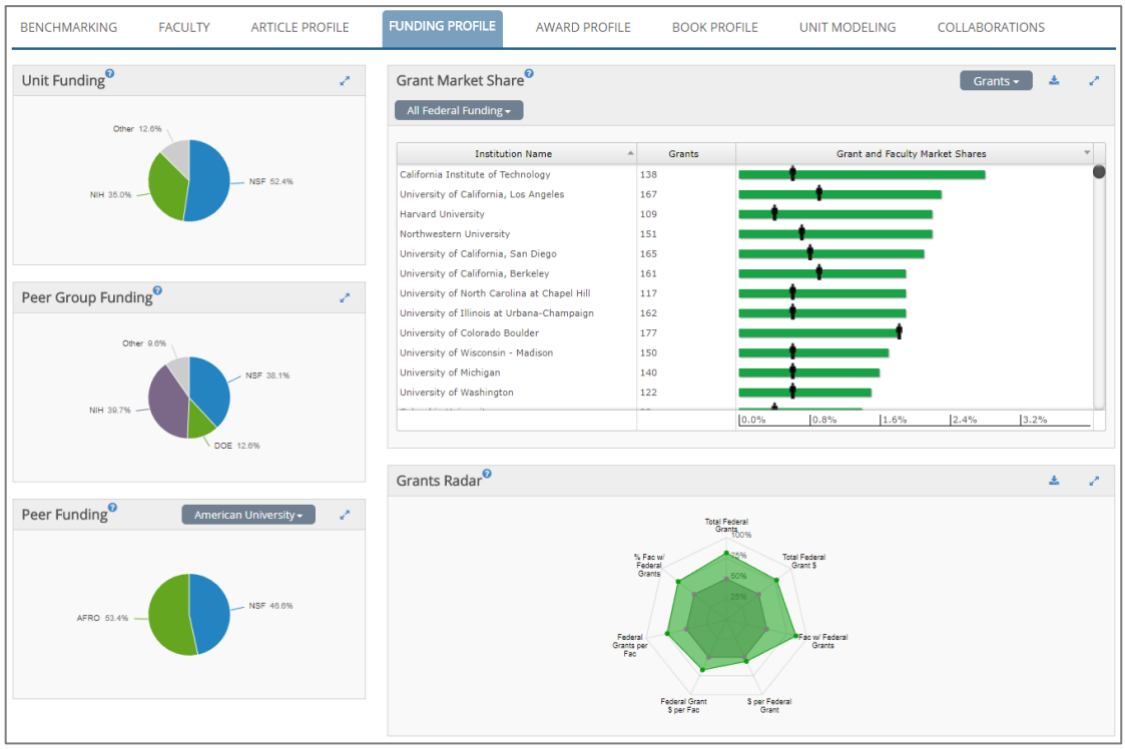
The Citations Radar shows unit activity for the following metrics: Total Citations, Percentage of Authors with a Citation, number of Faculty with Citations, Citations per Publication, Citations per Faculty, and Percentage of Faculty with a Citation.



Funding Profile

Funding Profile is presented in three sections; Funding Profile Comparisons, Grant Market Share, and Grants Radar.



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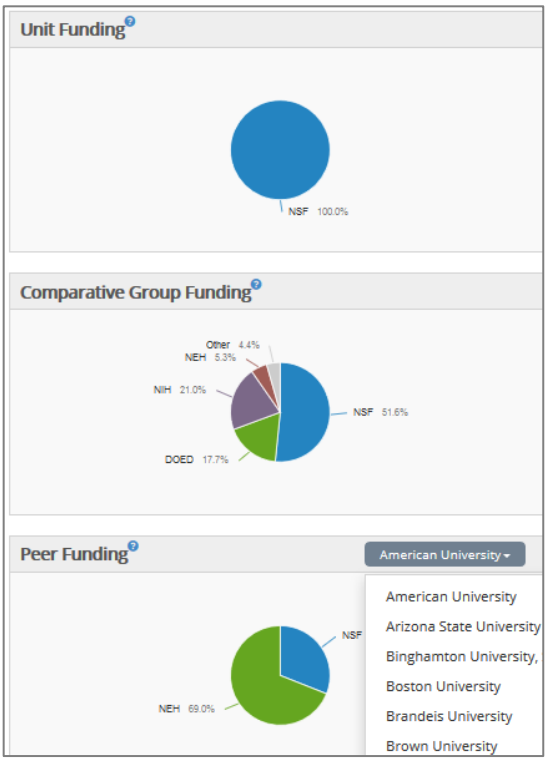
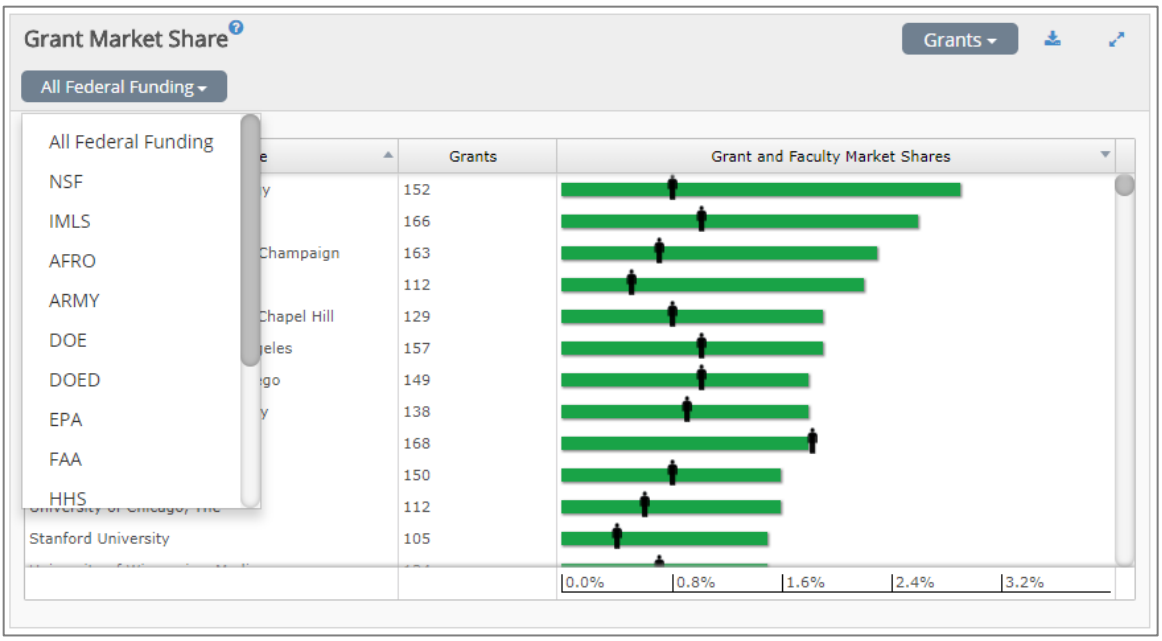
The first section displays unit funding compared to comparative group funding and individual peer department funding. A drop-down menu allows the user to select any peer institution for comparison.



A drop-down menu in the top left corner of the Grant Market Share provides the user with a way to select all granting agencies in the database or individual agencies. This selection will also affect the Grants Radar.



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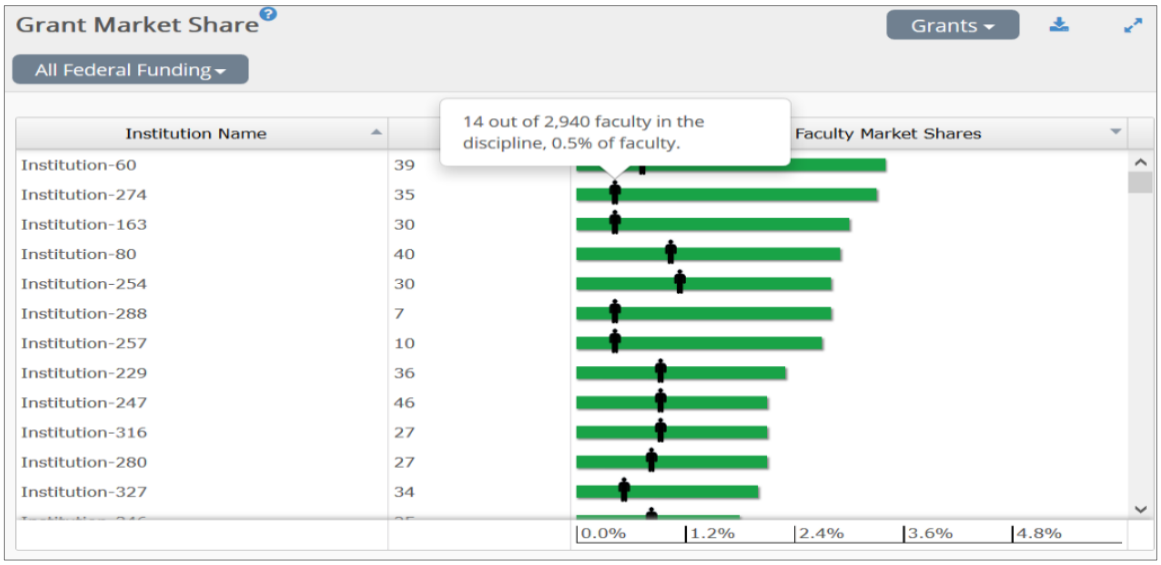
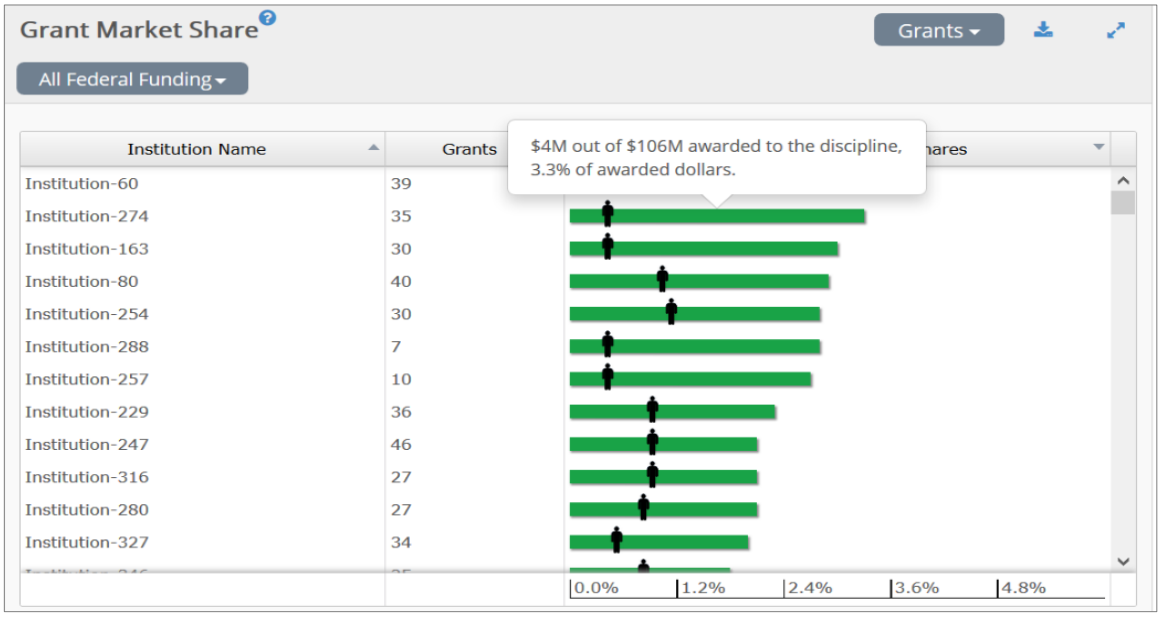
The Grant Market Share section shows the institution name, the number of grants, and a bar chart showing total grant dollars the institution's department faculty received, total grants dollars awarded in the discipline and the institution's percentage of awarded grant dollars.

Placing the cursor over the faculty icon for an institution will show the number of department faculty in the discipline, the total number of faculty in the discipline, and the percentage of disciplinary faculty that institution faculty represent.



Holding your cursor over the bar chart displays the amount of funds captured by the unit, the total number of dollars awarded to the discipline, and the percentage of awarded dollars the unit has captured.



Selecting "Annual Dollars per Grant" from the top right drop-down menu shows the institution name and a bar chart representing the Average Annual Dollars per Grant for that institution's department faculty within the discipline. A shaded area shows the average annual dollars per grant in the discipline.

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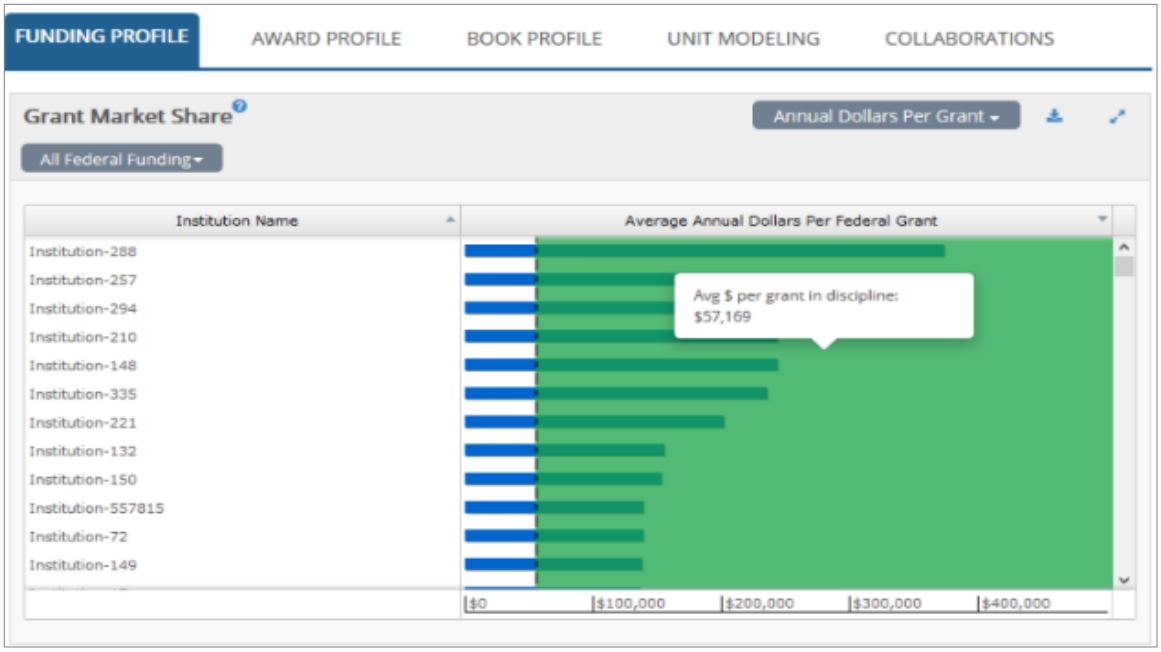
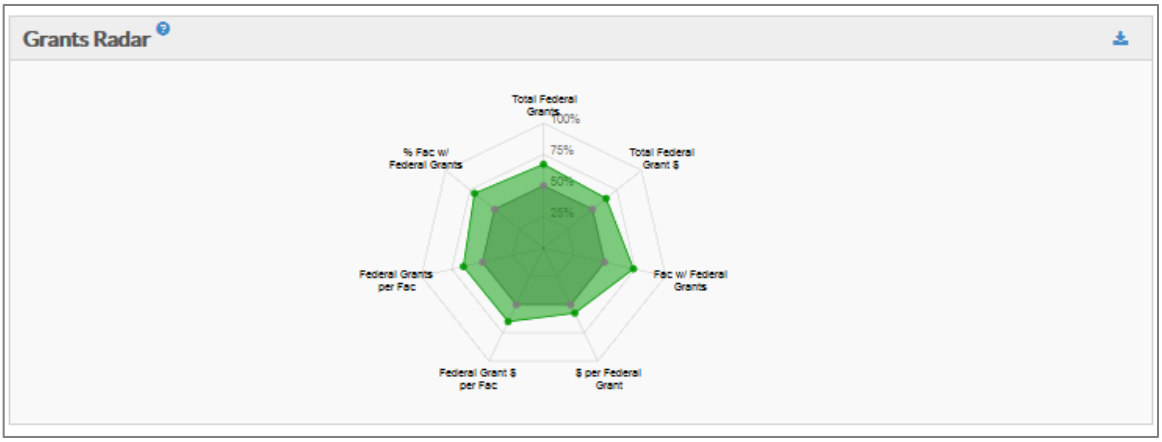


The Grants Radar shows department grants performance against the comparative group in seven grants metrics: Total Grants, Total Grant Dollars, number of Faculty with a Grant, Dollars per Grant, Grant Dollars per Faculty, Grants per Faculty, and Percentage of Faculty with a Grant.



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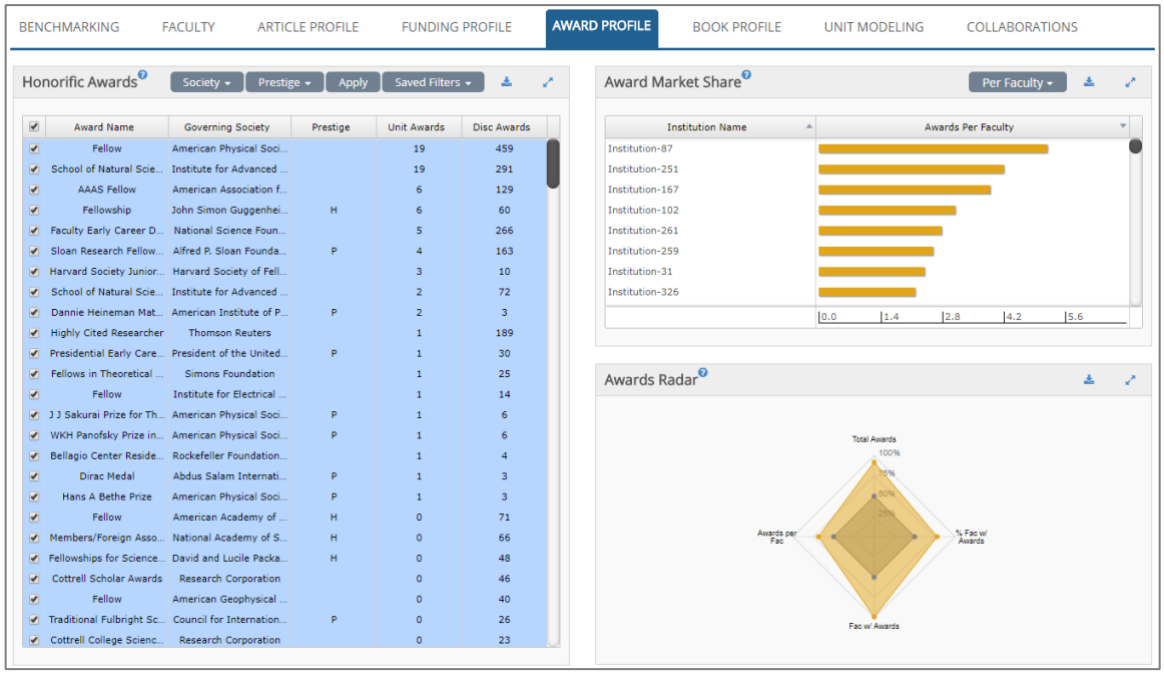
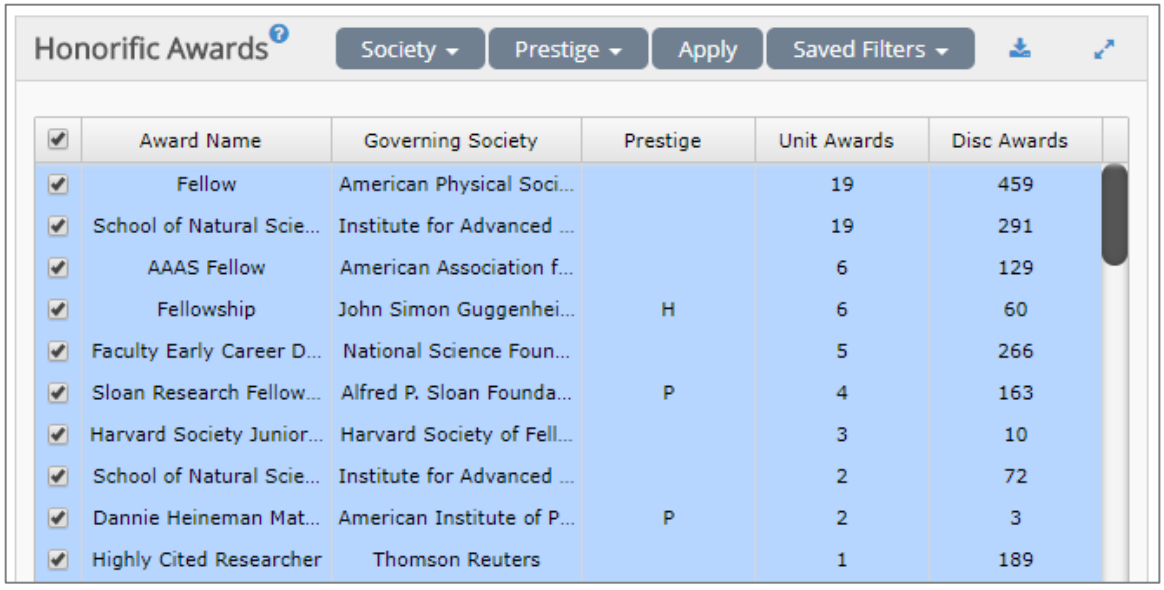
Award Profile

The Award Profile presents program level Award Market Share analyses. Similar to the Article Profile, there are three sections to this page: the Honorific Awards list, the Award Market Share, and the Awards Radar.



The first section, Honorific Awards, displays a table showing award names, governing societies, prestige as determined by the NRC, the number of awards for the unit, and the number of awards for the discipline. The awards can be filtered by governing society and prestige using the leftmost drop-down menus, or manually selected using the checkboxes on the left. After making a selection, click “Apply” to recalculate the Market Share and Radar sections. Custom sets can be saved using the “Saved Filters” drop-down menu.



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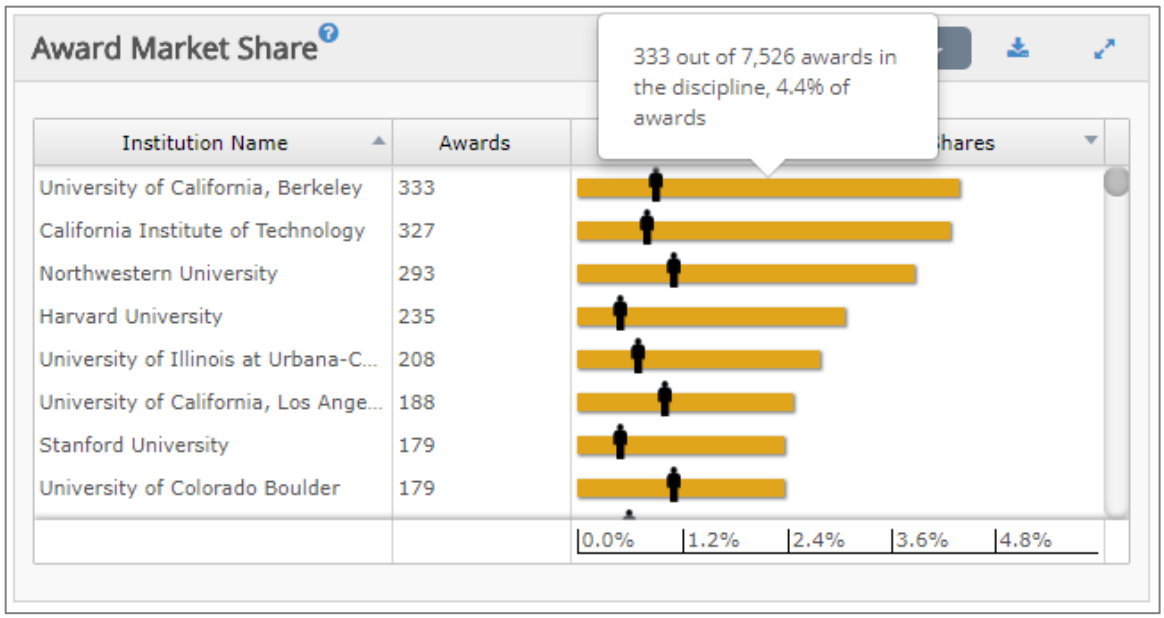
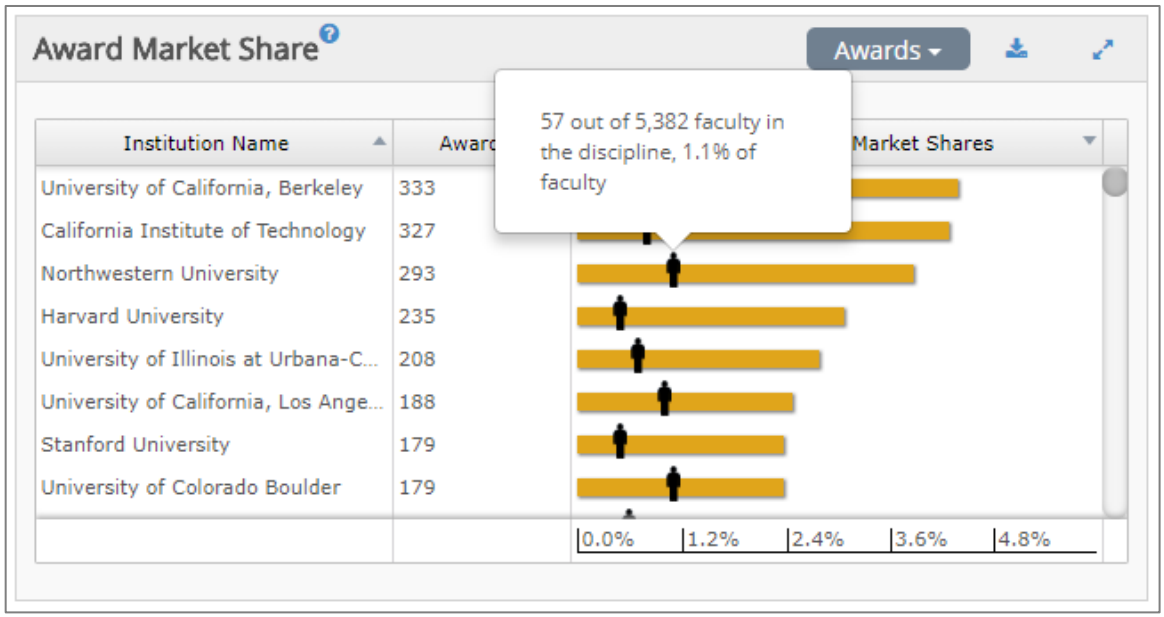
The second area is the Award Market share. The graph shows the institution name, the number of awards earned by program faculty within the discipline, and a chart whose bars and faculty icons represent the Award and Faculty Market Shares within the discipline, respectively. Hovering your cursor on an institution's bar displays the number of awards received, the total number of awards received within the discipline, and the percentage of institution awards received within the discipline.



Placing your cursor on the "faculty" icon for a particular institution will show the number of faculty in that unit, the total number of faculty in the discipline and the percentage of disciplinary faculty that unit faculty represent.



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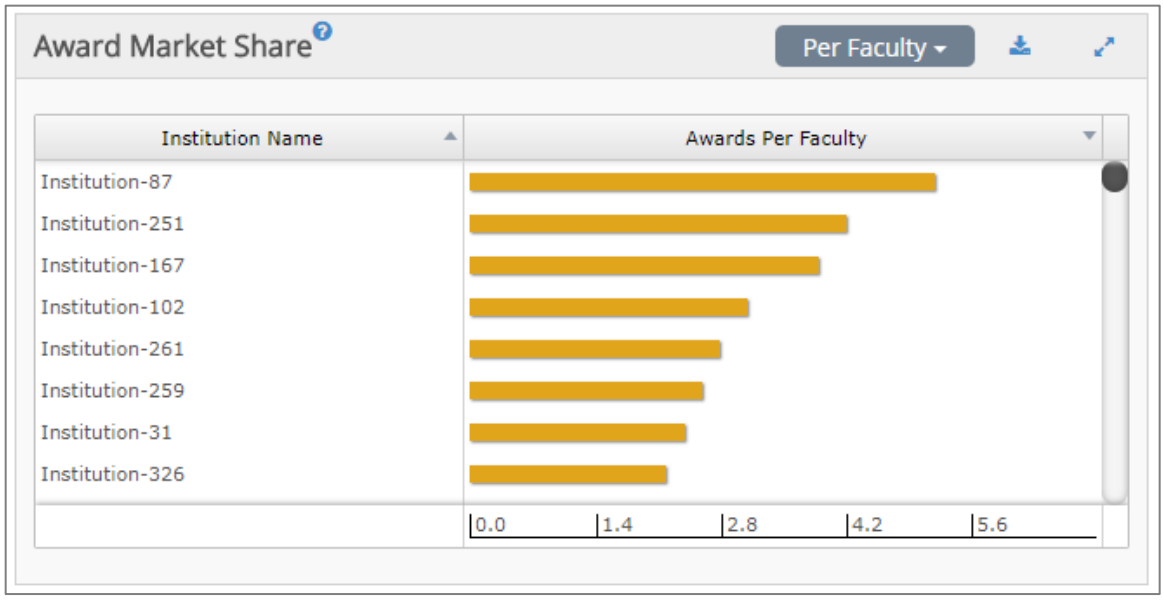
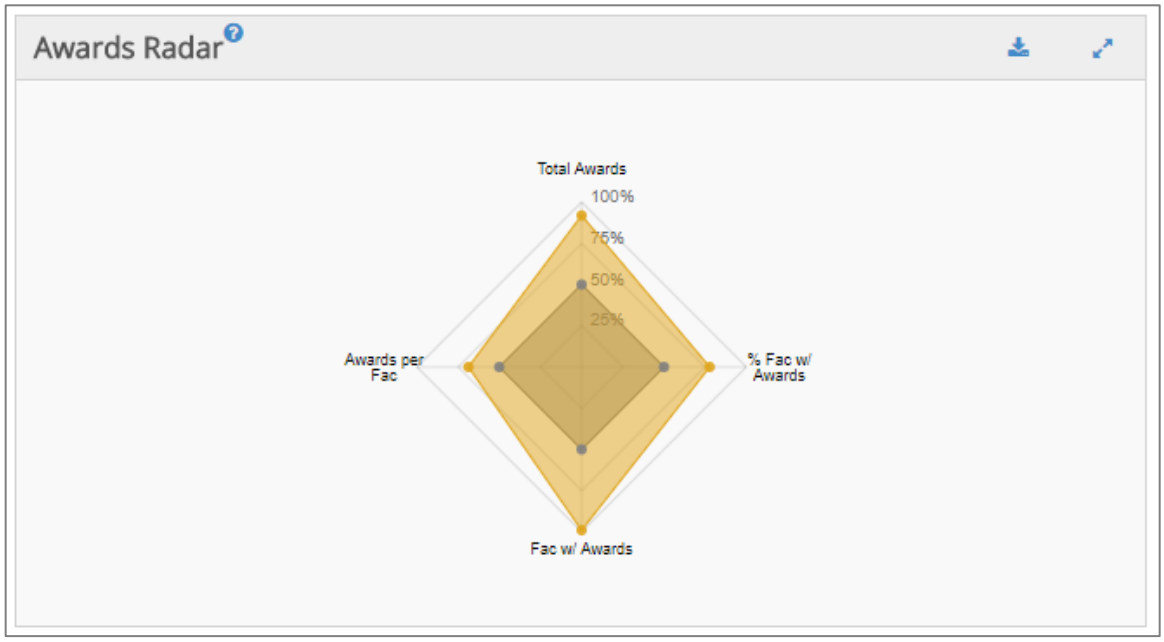
Selecting “Per Faculty” in the upper right drop-down menu displays the awards per faculty, within the discipline, at each institution. Hovering over the bar brings up the value for that institution.



Finally, the Awards Radar displays program awards performance against the comparative group over four metrics: Total Awards, Percentage of Faculty with an Award, Number of Faculty with an Award, and Awards per Faculty.



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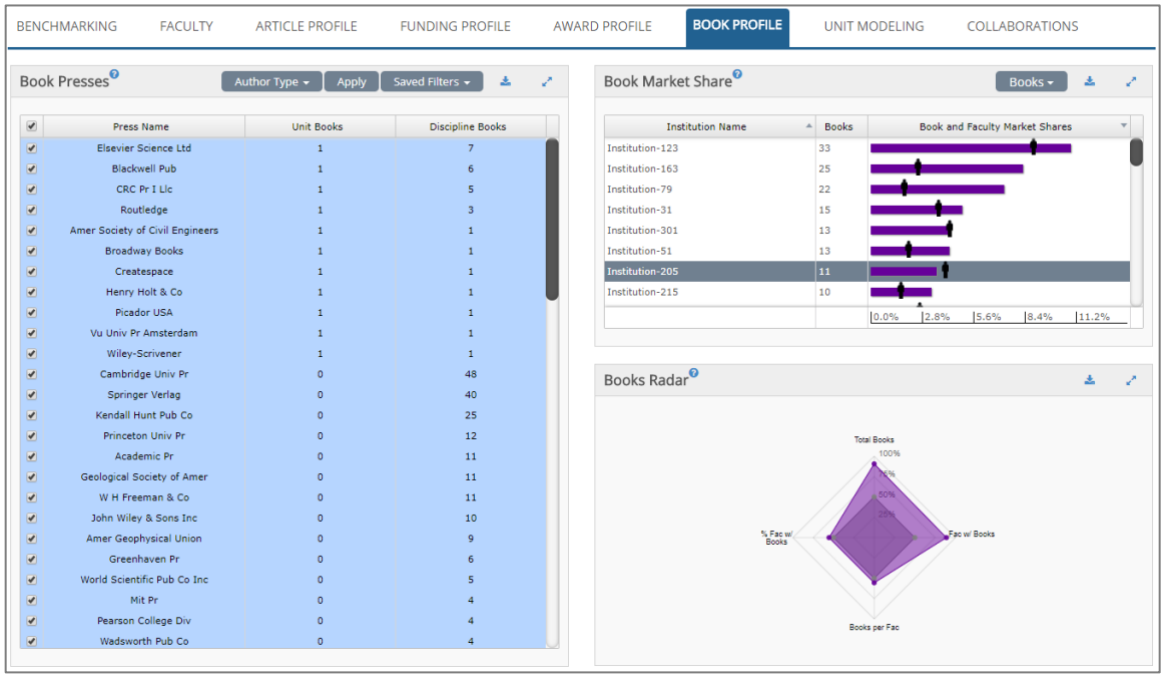
Book Profile

Consistent with the Article and Award Profiles, the Book Profile presents an analysis of discipline specific book publications in three sections: Book Presses, Book Market Share, and Books Radar.



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The first section, Book Presses, lists the Press Name and the numbers of Department and Discipline Books published under each Press. This section can be filtered either by Author Type (Author, Editor, Translator) using the left most dropdown menu, or manually using the checkboxes to the left. After making a selection, click “Apply” to recalculate the Market Share and Radar sections. Custom Press sets can be saved using the “Saved Filters” drop-down menu.

The Book Press Listing provides all book presses that have published at least one scholar in the selected discipline, the number of unit books, and the total number of books recorded for the discipline for the date range used. All columns are sortable A to Z and Z to A. The book press list is customizable. All book presses are preceded by a check box. Unchecking a box and clicking the “Apply” button removes the press from the list and from the Market Share and Radar charts. Custom views of the book press list can be saved and reused in other sessions.

Press Name	Unit Books	Discipline Books
Elsevier Science Ltd	1	7
Blackwell Pub	1	6
CRC Pr I Llc	1	5
Routledge	1	3
Amer Society of Civil Engineers	1	1
Broadway Books	1	1
Createspace	1	1
Henry Holt & Co	1	1
Picador USA	1	1
Vu Univ Pr Amsterdam	1	1
Wiley-Scrivener	1	1
Cambridge Univ Pr	0	48
Springer Verlag	0	40
Kendall Hunt Pub Co	0	25
Princeton Univ Pr	0	12
Academic Pr	0	11
Geological Society of Amer	0	11
W H Freeman & Co	0	11
John Wiley & Sons Inc	0	10
Amer Geophysical Union	0	9
Greenhaven Pr	0	6
World Scientific Pub Co Inc	0	5
Mit Pr	0	4
Pearson College Div	0	4
Wadsworth Pub Co	0	4

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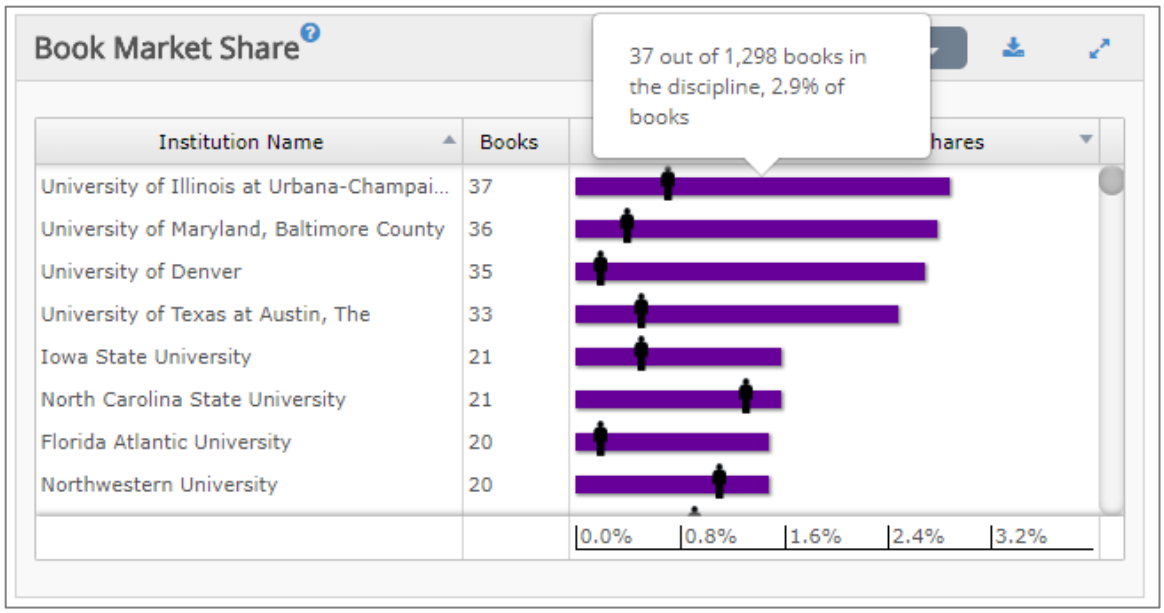
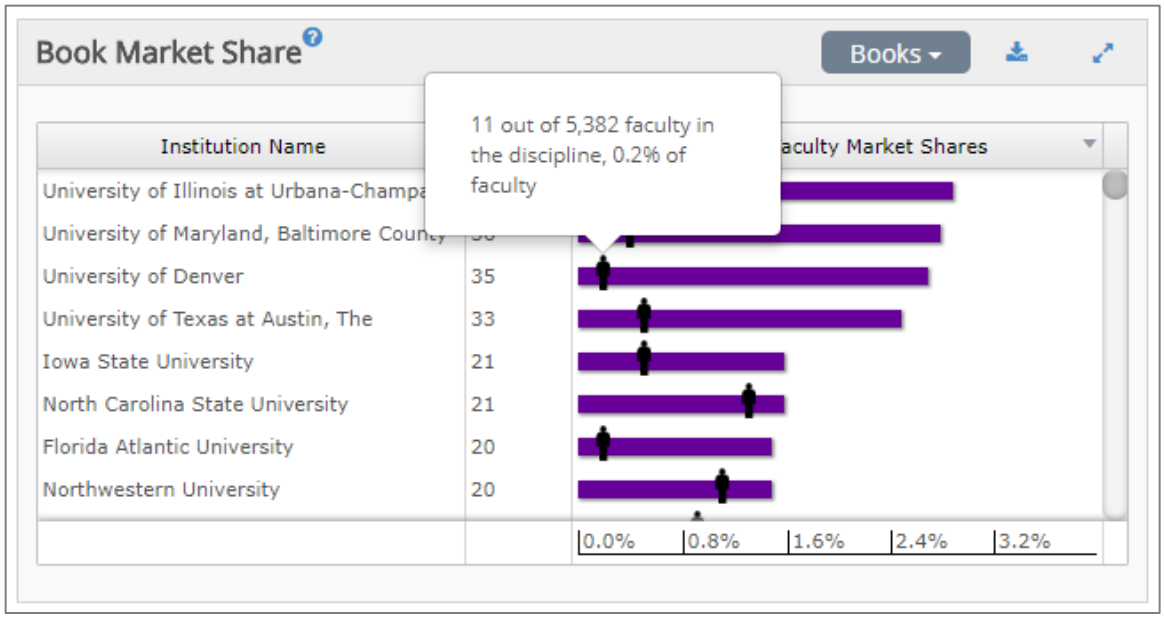
The Book Market Share section shows the Institution Name, number of Books published by that institution's unit faculty within the discipline, and a chart where the faculty icons and bars represent the Faculty and Book Market Shares, respectively. Hovering over an institution's bar displays the number of books published by that institution, the total number of discipline books published, and the percentage of institution book publications within the discipline.



Placing your cursor on the "faculty" icon for a particular institution will show the number of faculty in that unit, the total number of faculty in the discipline and the percentage of disciplinary faculty that unit faculty represent.



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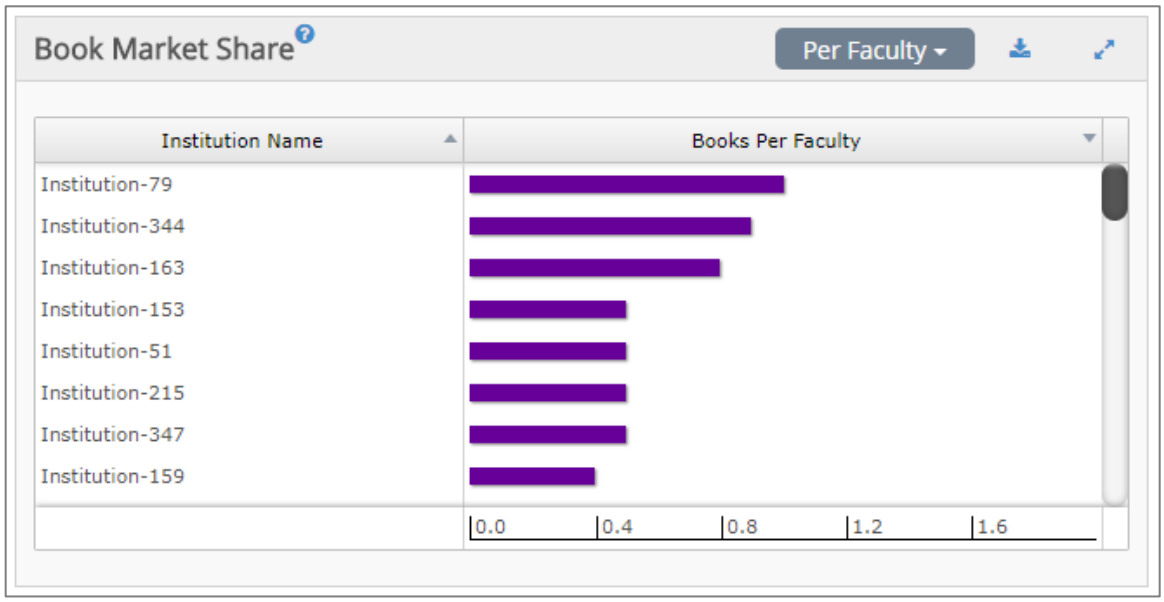
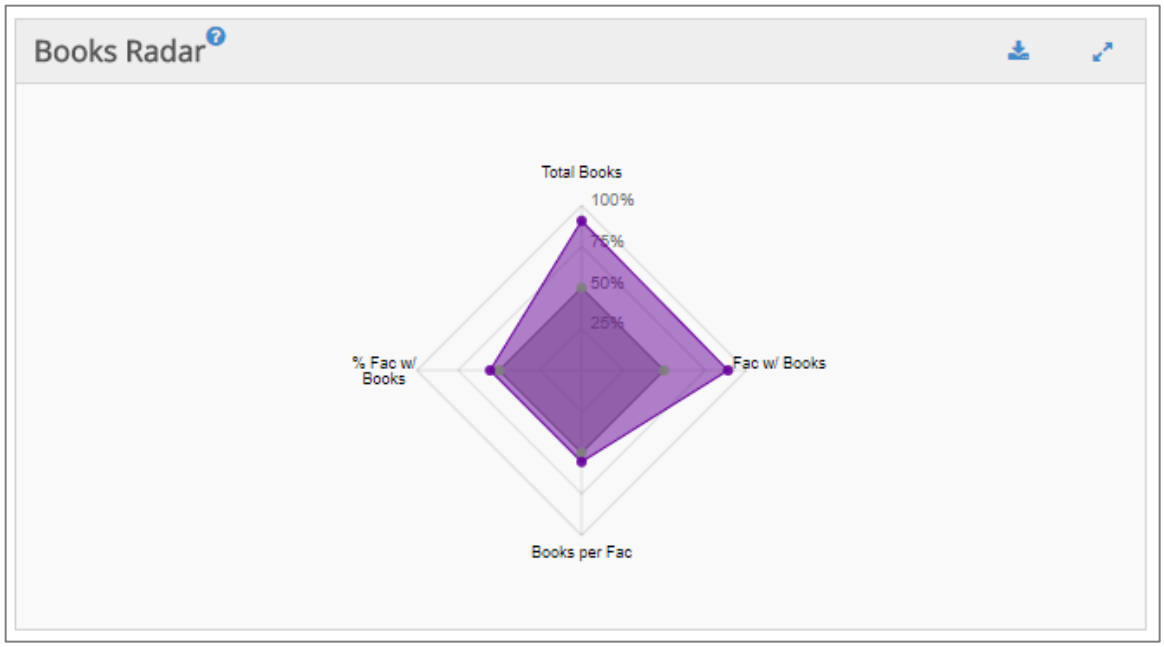
Selecting “Per Faculty” from the drop-down menu in the upper-right brings up a graphic showing book publications per faculty, within the discipline, for each institution. Hovering over a bar shows the value for that institution.



The Books Radar displays Department books performance against the national discipline over four metrics: Total Books, Percentage of Faculty with a Book, Number of Faculty with a Book, and Books per Faculty.



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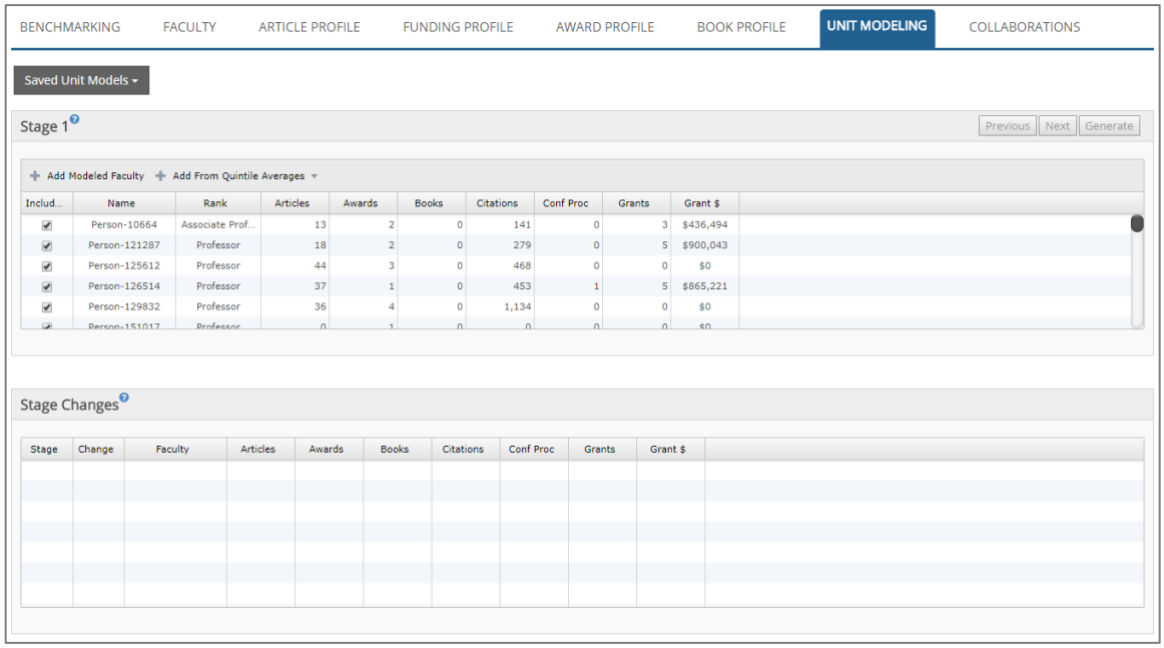
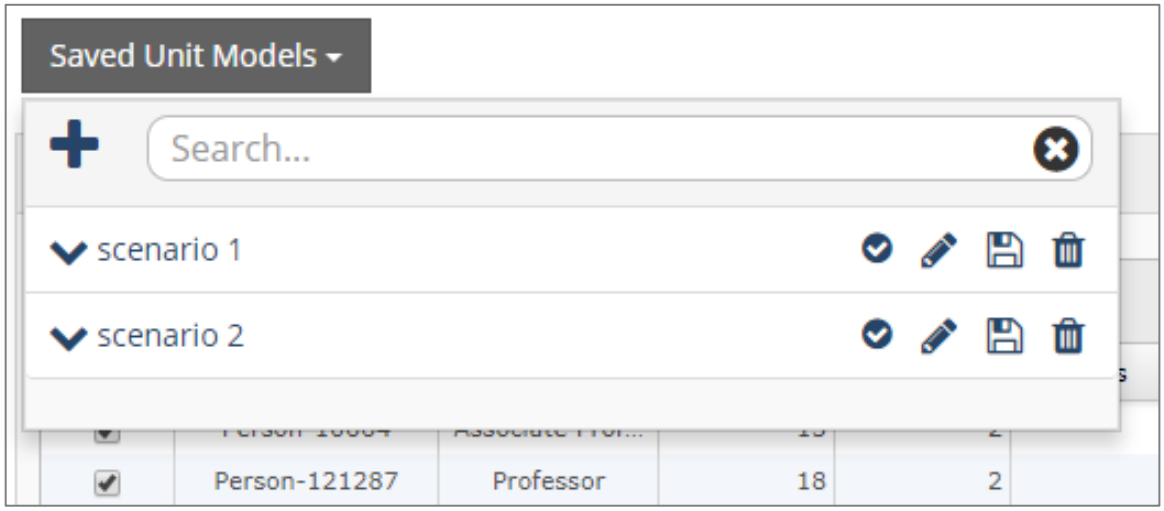
Unit Modeling

Unit Modeling allows the user to create “what if” scenarios showing the effects of losing current faculty, gaining new faculty, or a combination of the two. Comparative filters are applicable to unit modeling. Hence, unit modeling results will be calculated based on the peer group selected.



Users can load, update, or remove saved scenarios through the dropdown menu at the top of the Unit Modeling section. New scenarios can be saved by clicking: ⊞



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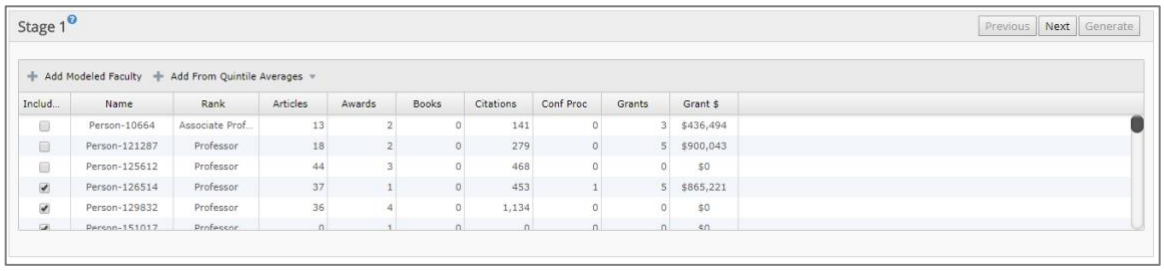
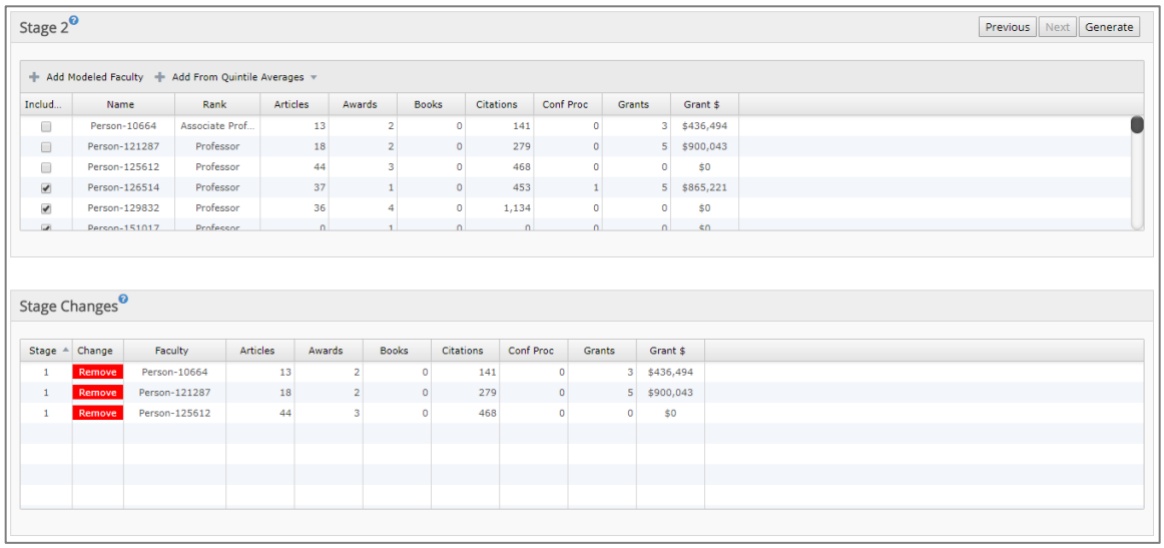
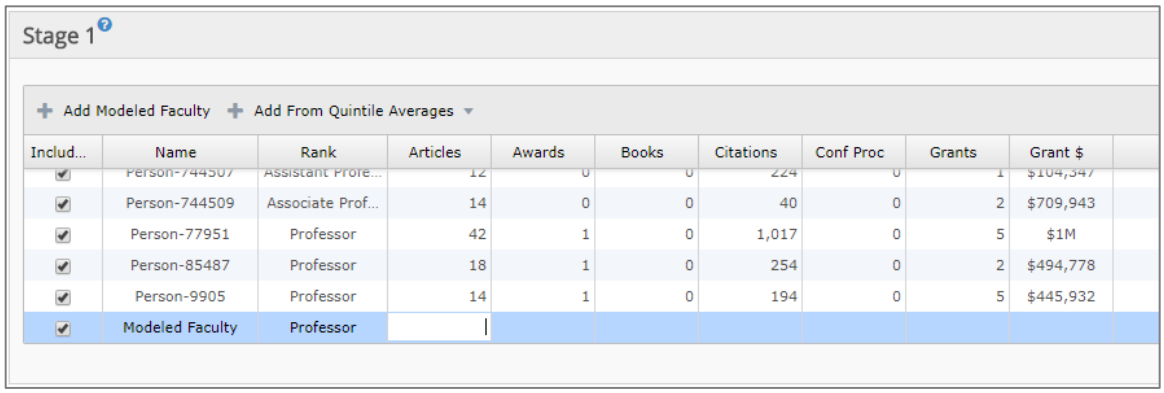
Scenarios are generated multiple ways. To model losing faculty, a list of program faculty, along with their scholarly activity, is presented on the left side of the page. A user unchecks the name of the individual(s) to be removed.



Click on “Next” in the upper right to display and review what actions will be taken, as well as enable generation of the scenario. Clicking “Previous” allows editing previous stages.



Above the faculty list there are two ways with which to add faculty. The first is to add Modeled Faculty, where the user supplies rank and scholarly activity information within the Modeled Faculty table entry.



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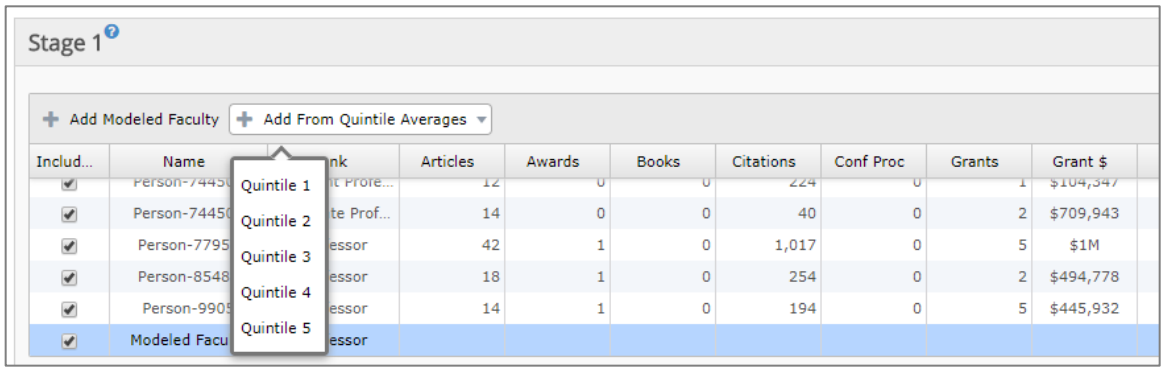
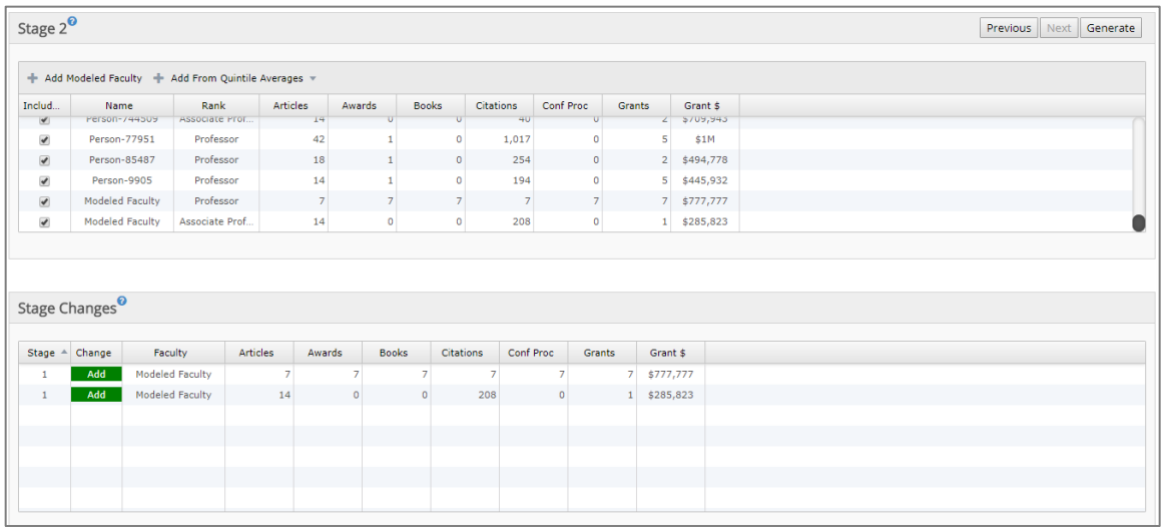
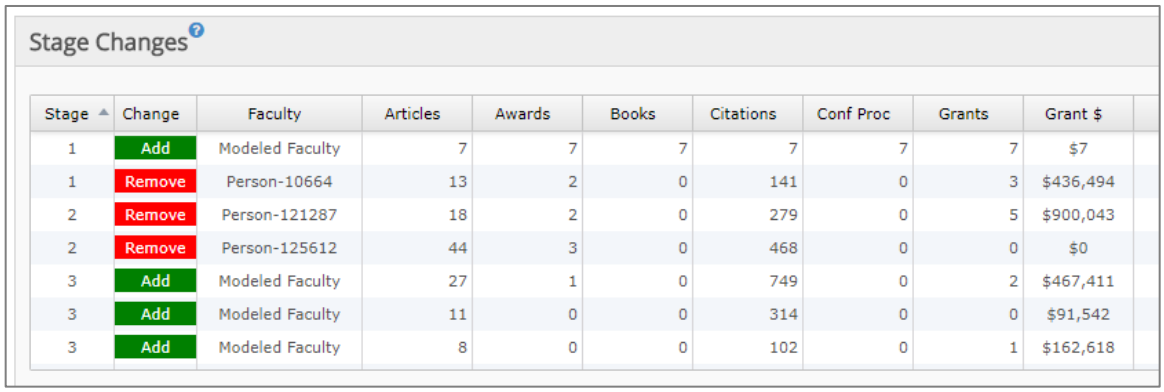
The second is to add from Quintile Averages for the comparative group, where the user selects which Quintile within the discipline that the scholarly activity is drawn from, as well as the rank of the added faculty.



Both kinds of additions will show up as “Modeled Faculty” within the faculty table. As before, clicking “Next” will display the changes, and enable generation of a scenario.



Multiple faculty may be both added and removed in a single stage. Multiple stages can be created to simulate change over time.



Stage	Change	Faculty	Articles	Awards	Books	Citations	Conf Proc	Grants	Grant $
1	Add	Modeled Faculty	7	7	7	7	7	7	$7
1	Remove	Person-10664	13	2	0	141	0	3	$436,494
2	Remove	Person-121287	18	2	0	279	0	5	$900,043
2	Remove	Person-125612	44	3	0	468	0	0	$0
3	Add	Modeled Faculty	27	1	0	749	0	2	$467,411
3	Add	Modeled Faculty	11	0	0	314	0	0	$91,542
3	Add	Modeled Faculty	8	0	0	102	0	1	$162,618

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When all stages have been created, click “Generate” in the upper right to obtain the Unit Modeling analysis, containing comparisons of Productivity Radars, Quintiles, Box Plots, and Summary Tables. A drop-down menu in the upper right can be used to switch between views. For Radars and Quintiles, arrows to the right and left of the charts can be used to advance and reverse the stage comparisons, respectively.

The initial view contains contrasting Productivity Radar charts showing current program activity and the first stage of modeling. Stage changes can be viewed below the chart.

Selecting “Quintiles” from the drop-down menu switches to the Quintiles view, which has the same interactions as the Productivity Radar. Added faculty are denoted by a dashed area within the appropriate Quintile and Rank.

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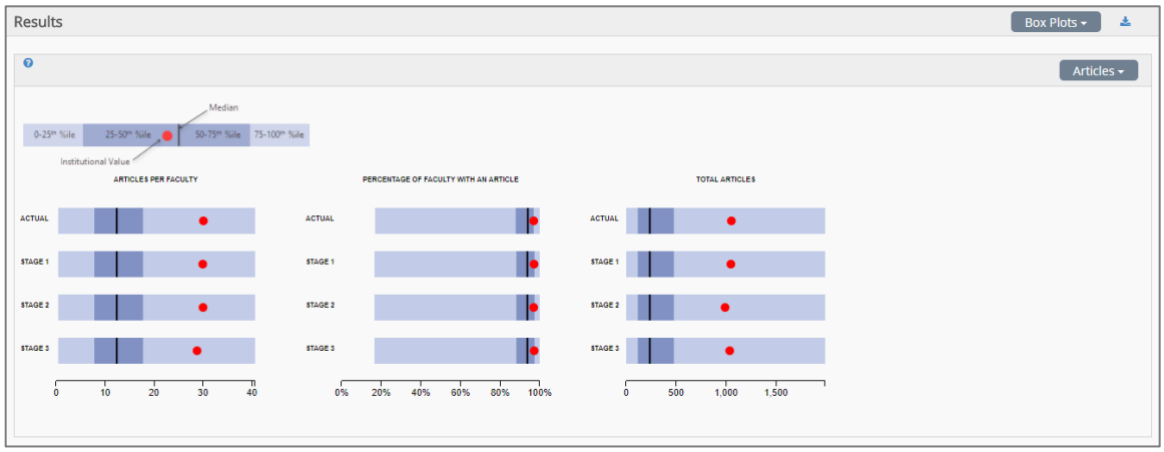
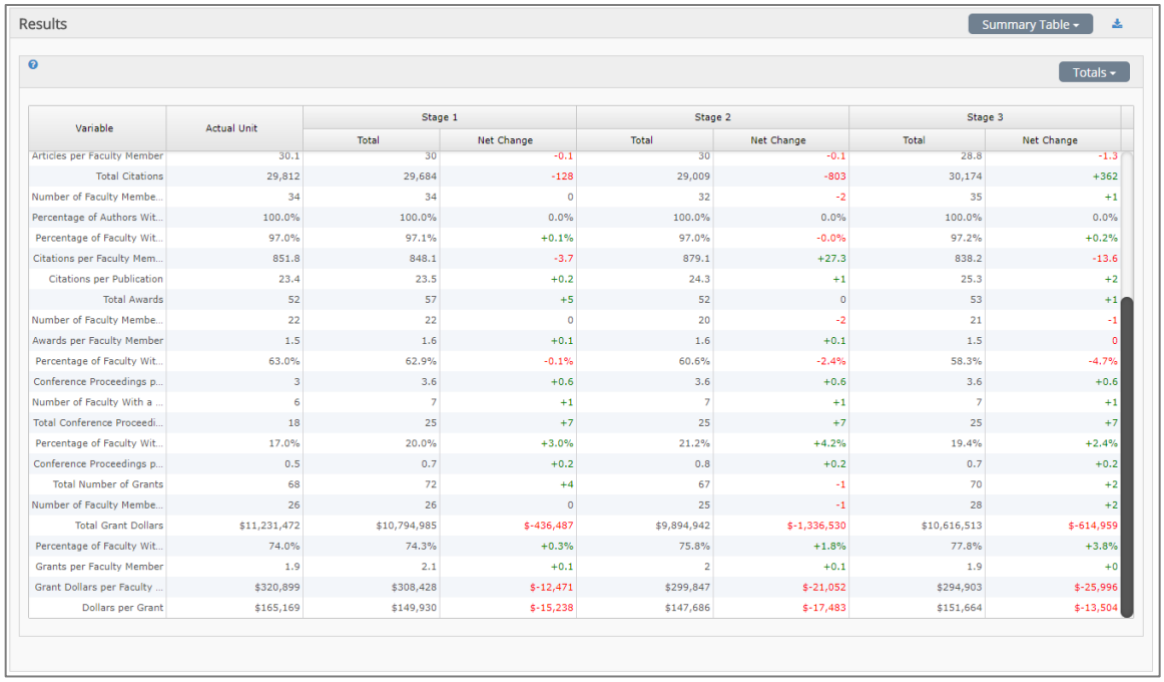
Selecting Box Plots will bring up separate box plots showing program activity in a vertical stack, with stages progressing from top to bottom. The user can switch between variables using the lower drop-down menu.



Selecting “Summary Table” will provide tables showing Totals, Rank, Z-Score, or Percentiles over 32 metrics. The lower right drop-down menu can be used to switch between those views. The table displays this data per stage, showing both the values and the net change from the current unit data to the given stage.



Variable	Actual Unit	Stage 1		Stage 2		Stage 3	
		Total	Net Change	Total	Net Change	Total	Net Change
Articles per Faculty Member	30.1	30	-0.1	30	-0.1	28.8	-1.3
Total Citations	29,812	29,684	-128	29,009	-803	30,174	+362
Number of Faculty Membe...	34	34	0	32	-2	35	+1
Percentage of Authors Wit...	100.0%	100.0%	0.0%	100.0%	0.0%	100.0%	0.0%
Percentage of Faculty Wit...	97.0%	97.1%	+0.1%	97.0%	-0.0%	97.2%	+0.2%
Citations per Faculty Mem...	851.8	848.1	-3.7	879.1	+27.3	838.2	-13.6
Citations per Publication	23.4	23.5	+0.2	24.3	+1	25.3	+2
Total Awards	52	57	+5	52	0	53	+1
Number of Faculty Membe...	22	22	0	20	-2	21	-1
Awards per Faculty Member	1.5	1.6	+0.1	1.6	+0.1	1.5	0
Percentage of Faculty Wit...	63.0%	62.9%	-0.1%	60.6%	-2.4%	58.3%	-4.7%
Conference Proceedings p...	3	3.6	+0.6	3.6	+0.6	3.6	+0.6
Number of Faculty With a ...	6	7	+1	7	+1	7	+1
Total Conference Proceedi...	18	25	+7	25	+7	25	+7
Percentage of Faculty Wit...	17.0%	20.0%	+3.0%	21.2%	+4.2%	19.4%	+2.4%
Conference Proceedings p...	0.5	0.7	+0.2	0.8	+0.2	0.7	+0.2
Total Number of Grants	68	72	+4	67	-1	70	+2
Number of Faculty Membe...	26	26	0	25	-1	28	+2
Total Grant Dollars	$11,231,472	$10,794,985	$-436,487	$9,894,942	$-1,336,530	$10,616,513	$-614,959
Percentage of Faculty Wit...	74.0%	74.3%	+0.3%	75.8%	+1.8%	77.8%	+3.8%
Grants per Faculty Member	1.9	2.1	+0.1	2	+0.1	1.9	+0
Grant Dollars per Faculty ...	$320,899	$308,428	$-12,471	$299,847	$-21,052	$294,903	$-25,996
Dollars per Grant	$165,169	$149,930	$-15,238	$147,686	$-17,483	$151,664	$-13,504

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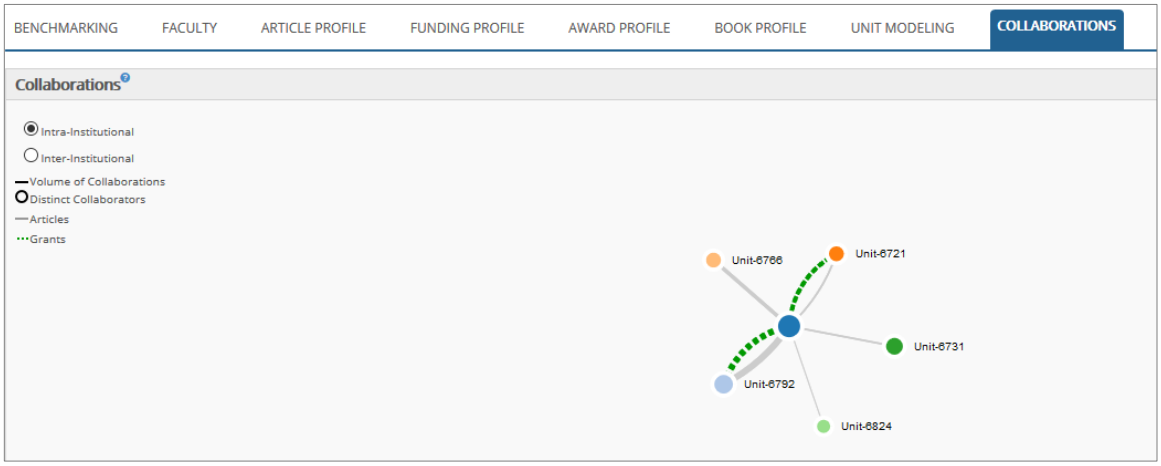
Collaborations

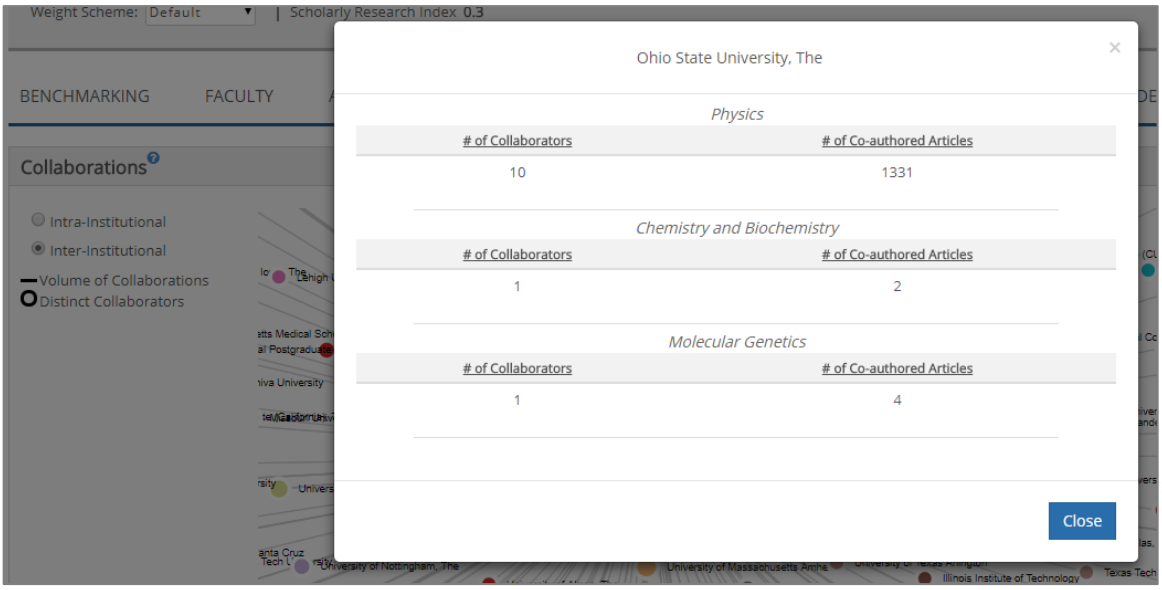
(Available to clients subscribing at the Master License Agreement level)

The Collaborations tool under department and program tabs of the Academic Analytics portal provides visualization of intra-institutional and inter-institutional faculty co-authorship of journal articles and Co-PI relationships on grants. The default is intra-institutional unit collaboration. Note: the application of custom peer filters will also be reflected in the Collaborations tool. Silver lines indicate co-authorship of journal articles. Dotted green lines indicate a Co-PI relationship on the same grant.

The view can be changed between Unit and Faculty in the upper right drop-down menu. In all views, clicking on a node will bring up collaborative information for that node. The graphic can be dragged through click-and-drag. Further, it can be zoomed using the mouse scroll wheel. Each view has a legend indicating volume of collaborations, number of collaborators, and color information when applicable.



Selecting the Inter-institutional button on the left side of the chart will produce a view of unit collaboration with all other institutions. Placing your cursor on an institution name will open a dialog box showing the name of the institution, the name of the collaborating unit, the number of collaborators and the number of co-authored articles produced.



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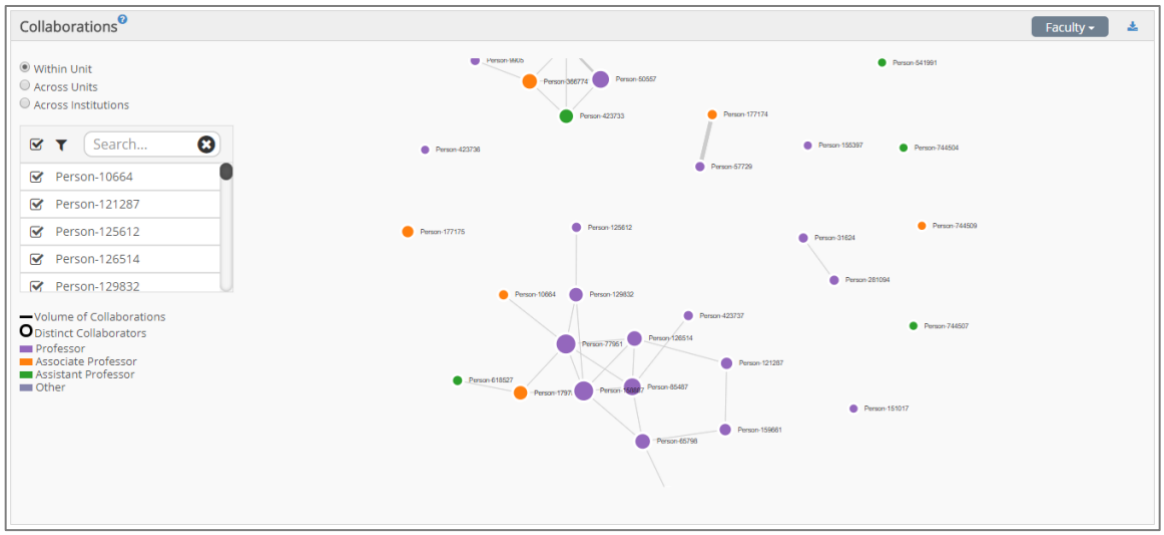
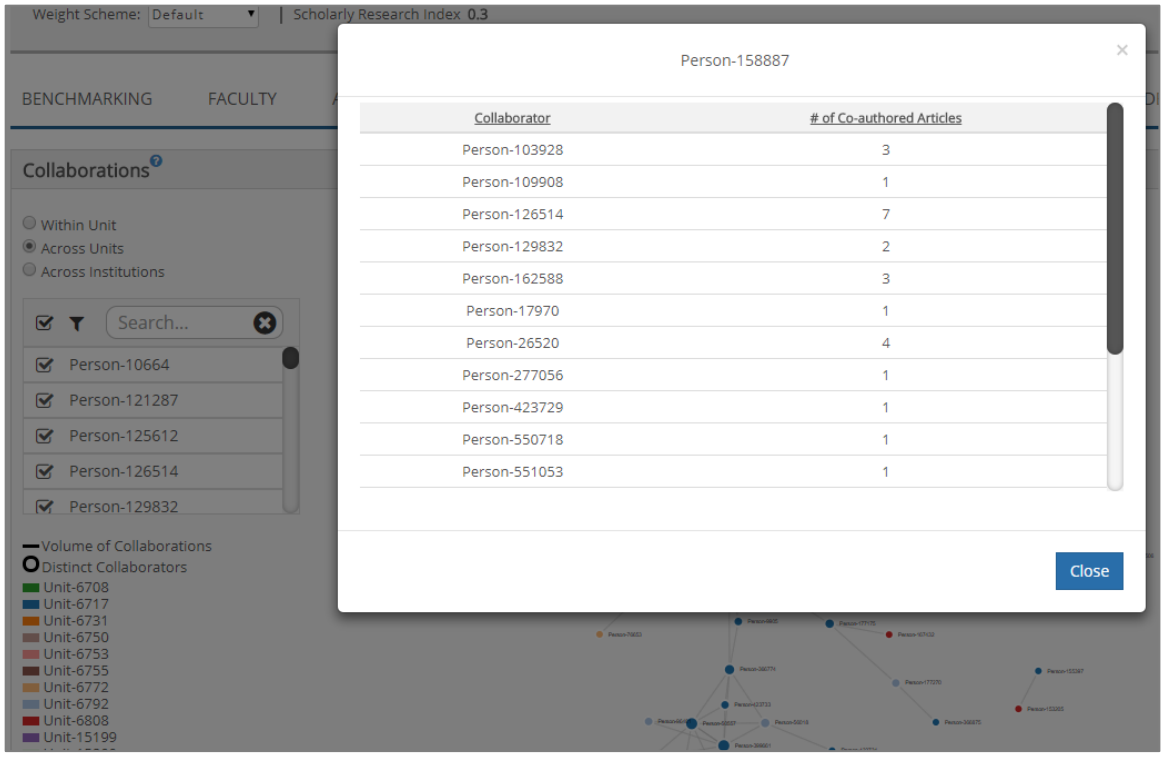
Clicking on Faculty changes the view to individual faculty names and gives the user the ability to view collaborations within the unit, across units and across institutions. Collaborations within the unit is the default. Clicking on the check box next to each faculty name allows the user to include/exclude specific faculty from the diagram.



Clicking on the Across Units button shows faculty collaborations across units within the institution. Placing your cursor on an individual's name calls up a dialog box which contains the faculty member's name, number of articles, citations, books, grants, grant dollars and awards, the names of collaborators and the number of co-authored articles produced. Faculty rank, the volume of collaboration and distinct collaborations are indicated through the legend on the left of the chart.



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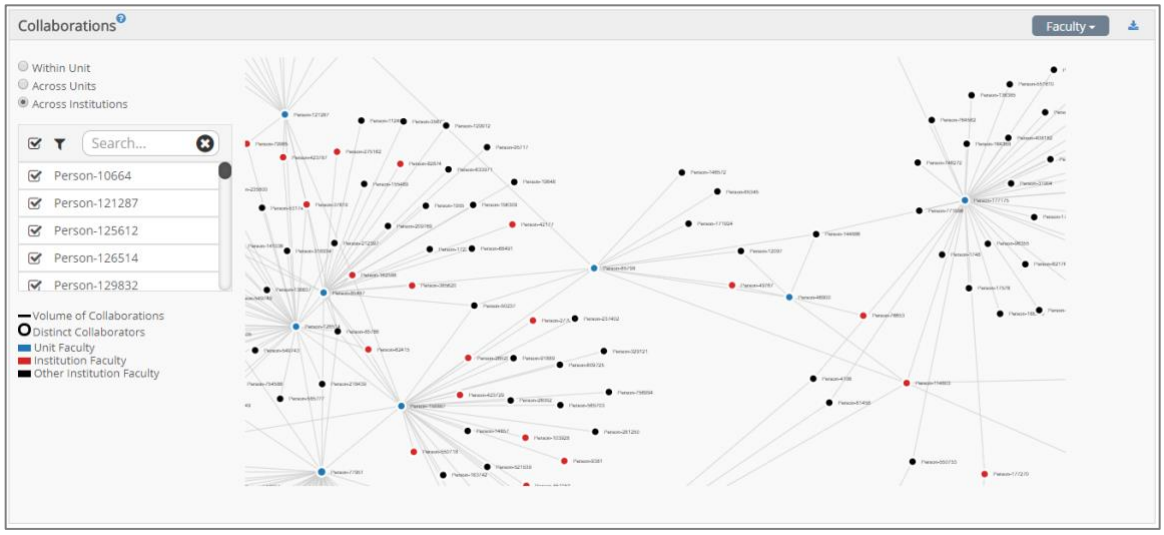
Clicking on the Across Institutions button produces a visualization of individual faculty collaborations across institutions. Use the scrolling wheel to zoom in or out to adjust the size of the plot. Placing your cursor on any individual's name calls up a dialog box which contains the faculty member's name, number of articles, citations, books, grants, grant dollars and awards, the names of collaborators and the number of co-authored articles produced. Faculty rank, the volume of collaboration and distinct collaborations are indicated through the legend on the left of the chart.



Downloads

Academic Analytics data can be downloaded in flat files via the Academic Analytics portal. The downloads page can be reached through the "Downloads" entry on the side navigation bar. The data is also available in Microsoft SQL Server format; contact your Associate for more information.

Downloads are organized into 4 sections:

- Details Product – Administration Data
- Details Product – Comparative Data
- Details Product – Comparative Details Data
- Details Product – Full Data

Each section contains numerous download links and may or may not be available depending on both the institution's licensure and user access permission as set by the Institution. Each download link is followed by a brief description of the information contained within the download.

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