

DISCIPLINE FastFacts

from Academic Analytics

5.3%

of all articles published in the discipline

In the last four years of publishing data in the Academic Analytics database, of the thousands of journal titles in which chemists publish, the *Journal of the American Chemical Society* occupies the top spot.

Collaborative research between faculty in Chemistry accounts for **18.4%** of all co-authored Chemistry publications.

18.4%

120

Disciplines

Chemistry researchers conduct collaborative research (co-authorship of journal articles) with faculty in over **120** Disciplines.

In all, collaborative research inside and outside the discipline accounts for **97.5%** of the Chemistry journal articles captured in the Academic Analytics database (2014-2017 inclusive database).

97.5%

Collaboration of **CHEMISTRY** faculty with other disciplines is most often with Biochemistry faculty which accounts for **7.9%** of all co-authored Chemistry publications. The next two most frequent disciplines, Molecular Biology and Physics, account for **3.3%** and **3.3%** of all co-authored Chemistry publications, respectively. The broad field most like Chemistry is Engineering and its sub-fields, publishing collaborative research **97.6%** of the time. Do you know who are the top potential collaborators in Chemistry that best compliment your research and where they are located?

Data from the Academic Analytics database indicate that

49.7%

of CHEMISTRY faculty currently receive federal funding.



The **National Science Foundation** leads sources of federal funding for Chemistry with **46%** of captured funding over the past nine years.



Next is the **National Institutes of Health** with **39%** of captured funding over the same time period.



4.4% of all Chemistry faculty received an NSF early career award.

COMPLETING THE TOP FIVE SOURCES ARE:

Department of Energy

Office of Naval Research

National Aeronautics and Space Administration

Since **Academic Analytics** uses the individual researcher as the unit of record, we can look across all faculty in a discipline to view their current rank and the years since their most advanced degree.

FULL
professor

ASSOCIATE
professor

ASSISTANT
professor

32.7
YEARS

20.7
YEARS

10.9
YEARS

Average academic ages (years since their most advanced degree) of chemists nationally

Percent of faculty ranks within the national discipline

55%

23%

22%

How does the distribution of faculty in your department compare to the national averages, and what are the implications for planning?

Research Insight from Academic Analytics can help answer that.

2019

This year, the 2019 Nobel Prize in Chemistry was awarded to researchers at the University of Texas at Austin, the State University of New York at Binghamton, and Meijo University, in Japan. They were recognized for the development of lithium-ion batteries.

There are **6,595**

individuals in the **Academic Analytics** database who are affiliated with Chemistry departments.

Of the faculty population for whom we can infer gender

77%

MALE

23%

FEMALE

46.7% of all Chemistry faculty captured by **Academic Analytics** have received an honorific award. The American Chemical Society presents the most honorific awards for the discipline, accounting for **18.5%** of all awards. Of the faculty population for whom we have been able to identify gender, **56.3%** of those awards went to male scholars and **43.7%** went to female scholars. The next major providers of awards for the discipline are the American Association for the Advancement of Science and the Alfred P. Sloan Foundation. Other major providers of honorific awards are listed below.

CHEMISTRY is fundamental to so much of our knowledge in the physical sciences. This is amply displayed in the myriad awards chemists receive from a variety of awarding societies. According to the data captured in the Academic Analytics database, each year chemists are recognized for their contributions to knowledge by organizations such as the:

National Institutes of Health
Howard Hughes Medical Institute
Office of Naval Research
Optical Society of America
American Geophysical Union
International Society for Optics & Photonics
The American Meteorological Society