

## **Attachment D: Field Taxonomy**

Understanding PhD Career Pathways for Program Improvement

**Updated**

April 2, 2018

This update replaces the Field Taxonomy released on Jan 11, 2017

**Proposal due**

**May 1, 2018, 11:59 p.m. Pacific time**

Single pdf to [https://cgs.col.qualtrics.com/jfe/form/SV\\_da6p8pwSh7aYC7X](https://cgs.col.qualtrics.com/jfe/form/SV_da6p8pwSh7aYC7X)

Questions about proposal submission can be directed to:  
Ryan Bradshaw - [rbradshaw@cgs.nche.edu](mailto:rbradshaw@cgs.nche.edu)

*Note:* The guide is one of several documents accompanying a 2018 Request for Proposals to minority-serving CGS member institutions to participate in *Understanding PhD Career Pathways for Program Improvement*, a multi-institution project to field two CGS-developed surveys.

The RFP package includes:

Request for Proposals

Attachment A: Implementation Guide for PhD Career Pathways Surveys

Attachment B: CGS Career Pathways Alumni Survey

Attachment C: CGS Career Pathways Student Survey

Attachment D: Field Taxonomy (this document)

Attachment E: Strategies for Sustainability from Current Project Participants

## STEM: Taxonomy of Fields of Study

*Note: The institution must commit to collecting data on PhD student and alumni data in at least one of the STEM doctoral programs, however, the institution is encouraged to also administer the PhD Career Pathways Alumni and Student survey to students and alumni from any doctoral program the institution offers.*

### ***Chemical Engineering***

Chemical and Biomolecular Engineering  
Chemical Engineering

### ***Civil Engineering***

Architectural Engineering  
Civil Engineering  
Construction Engineering  
Environmental/Environmental Health  
Engineering  
Geotechnical and Geoenvironmental  
Engineering  
Structural Engineering  
Surveying Engineering  
Transportation and Highway Engineering  
Water Resources Engineering

### ***Computer, Electrical, and Electronics Engineering***

Computer Engineering  
Computer Hardware Engineering  
Computer Software Engineering  
Electrical Engineering  
Electronics Engineering  
Laser and Optical Engineering  
Telecommunications Engineering

### ***Industrial Engineering***

Industrial Engineering  
Manufacturing Engineering  
Operations Research

### ***Materials Engineering***

Ceramic Sciences and Engineering  
Materials Engineering  
Materials Science  
Metallurgical Engineering  
Polymer/Plastics Engineering

### ***Mechanical Engineering***

Engineering Mechanics  
Mechanical Engineering

### ***Engineering, Other***

Aeronautical Engineering  
Aerospace Engineering  
Agricultural Engineering  
Biochemical Engineering  
Biomedical/Medical Engineering  
Electromechanical Engineering  
Engineering Chemistry  
Engineering Physics  
Engineering Science  
Forest Engineering  
Geological/Geophysical Engineering  
Mining and Mineral Engineering  
Naval Architecture and Marine  
Engineering  
Nuclear Engineering  
Ocean Engineering  
Paper Science and Engineering  
Petroleum Engineering  
Systems Engineering  
Textile Sciences and Engineering  
Engineering, Other

### ***Chemistry***

Analytical Chemistry  
Chemical Plastics  
Chemistry, General  
Environmental Chemistry  
Forensic Chemistry  
Inorganic Chemistry  
Medicinal and Pharmaceutical Chemistry  
Organic Chemistry  
Physical Chemistry  
Polymer Chemistry  
Theoretical Chemistry  
Chemistry, Other

***Earth, Atmospheric, and Marine Sciences***

Aquatic Biology/Limnology  
Atmospheric Sciences  
Biological Oceanography  
Earth Sciences  
Geochemistry  
Geological Sciences  
Geophysics and Seismology  
Geosciences  
Hydrology  
Marine Biology  
Marine Sciences  
Meteorology  
Oceanography  
Paleontology  
Earth, Atmospheric, and Marine Sciences,  
Other

***Physics and Astronomy***

Acoustics  
Astronomy  
Astrophysics  
Atomic/Molecular Physics  
Condensed Matter and Materials Physics  
Elementary Particle Physics  
Nuclear Physics  
Optics/Optical Sciences  
Physics  
Planetary Astronomy and Science  
Plasma and High-Temperature Physics  
Solid State Physics  
Theoretical and Mathematical Physics  
Physics and Astronomy, Other

***Computer and Information Sciences***

Computer and Information Sciences,  
General  
Computer Programming  
Computer Science  
Computer Software and Media  
Applications  
Computer Systems Analysis  
Computer Systems Networking and  
Telecommunications  
Computer/Information Technology  
Administration and Management  
Data Processing  
Information Sciences/Studies  
Microcomputer Applications

Computer and Information Sciences,  
Other

***Mathematical Sciences***

Actuarial Science  
Applied Mathematics  
Mathematics  
Probability  
Statistics  
Mathematical Sciences, Other

***Agriculture, Natural resources, and  
conservation***

Agricultural and Domestic Animal Services  
Agricultural and Food Products Processing  
Agricultural Business and Management  
Agricultural Economics  
Agricultural Mechanization  
Agricultural Production  
Agricultural Public Services  
Agriculture, General  
Agronomy  
Animal Sciences  
Applied Horticulture  
Fishing and Fisheries Sciences and  
Management  
Food Science and Technology  
Forestry  
Horticultural Business Services  
International Agriculture  
Natural Resources and Conservation  
Natural Resources Management and Policy  
Parks, Recreation, and Leisure Facilities  
Management  
Parks, Recreation, and Leisure Studies  
Plant Sciences  
Soil Sciences  
Wildlife and Wildlands Science and  
Management  
Agriculture, Natural Resources, and  
Conservation, Other

***Anthropology and Archaeology***

Anthropology  
Archaeology

**Biological and biomedical Sciences**

Anatomical Sciences  
Animal Biology  
Bacteriology  
Biochemistry  
Bioinformatics  
Biology, General  
Biomathematics  
Biometry  
Biophysics  
Biotechnology  
Botany/Plant Biology  
Cell/Cellular Biology  
Computational Biology  
Developmental Biology  
Ecology  
Entomology  
Epidemiology  
Evolution  
Genetics  
Immunology  
Microbiological Sciences  
Molecular Biology  
Molecular Medicine  
Neurosciences  
Parasitology  
Pathology  
Pharmacology  
Physiology  
Population Biology  
Systematics  
Toxicology  
Zoology  
Biological and Biomedical Sciences, Other

**Economics**

Applied Economics  
Econometrics  
Economics  
International Economics

**Political Science**

International Relations  
Political Science and Government  
Public Policy Analysis

**Psychology**

Applied Psychology  
Clinical Psychology  
Cognitive Psychology  
Community Psychology  
Comparative Psychology  
Counseling Psychology  
Developmental and Child Psychology  
Experimental Psychology  
Forensic Psychology  
Industrial and Organizational Psychology  
Personality Psychology  
Physiological Psychology  
Psycholinguistics  
Psychology, General  
Psychometrics  
Psychopharmacology  
Quantitative Psychology  
Research and Experimental Psychology  
Social Psychology  
Psychology, Other

**Social Sciences, Other**

Adult Development and Aging  
Area, Ethnic, Cultural, Gender, and Group  
Studies  
Criminal Justice/Criminology  
Geography and Cartography  
Gerontology  
Social Sciences, General  
Urban Studies/Affairs  
Social Sciences, Other

**Sociology**

Demography  
Rural Sociology  
Sociology

Source: Okahana, H., Feaster, K., & Allum, J. (2016). *Graduate Enrollment and Degrees: 2005 – 2015*. Washington, DC: Council of Graduate Schools.