At the undergraduate and graduate/professional levels, APS programs and fellowships provide opportunities for student study, travel, and interaction with experienced physiologists. Educational materials offer tools to improve teaching and learning at both the graduate and professional levels.

**Programs from the American Physiological Society:**
- Student Awards and Fellowships
- Student Career Resources
- Postdoctoral Awards and Fellowships
- Postdoctoral Career Resources
- Student Study Resources
- Education Projects
- Learning Resources
- Outreach Opportunities

Visit [the-aps.org/education](http://the-aps.org/education) for more information.
This is a partial listing of awards for trainees and career physiologists. For a complete listing, see the awards section of the APS website (the-aps.org/awards). Note that awards that specifically target underrepresented minority students and scientists are marked with an asterisk (*). All APS awards encourage applications from women and minority trainees and scientists.

Dale J. Benos Early Career Professional Service Award
Available to: Graduate and medical students, postdoctoral fellows, and early career professionals
This award honors a member of the Society at an early career stage (graduate/professional student, postdoctoral fellow, Assistant Professor or equivalent position) who is judged to have made outstanding contributions to the physiology community and demonstrated dedication and commitment to furthering the broader goals of the physiology community. Awardee receives reimbursement of up to $1,300 for Experimental Biology (EB) travel and authors an article for publication in The Physiologist. Application deadline: January 25 the-aps.org/benos

Novel Disease Model Award
Available to: Graduate students and postdoctoral fellows
These awards recognize one predoctoral and one postdoctoral student who submit the best abstracts describing a disease model at Experimental Biology (EB). The model may be cellular or in vivo, the applicants should clearly emphasize the novelty of the model and the potential utility of the system for future research related to a disease process. Predoctoral awardee receives $500 and complimentary EB registration; postdoctoral awardee receives $800 and complimentary EB registration. Awards are sponsored by Plato BioPharma, Inc. Application deadline: December 15 the-aps.org/ndmstudent and the-aps.org/ndmpostdoc

Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Awards
Available to: Graduate students and postdoctoral fellows
Thanks to generous donations from several sources, the APS offers abstract-based awards for graduate students and postdoctoral fellows who are Society members and who have submitted first author abstracts to Experimental Biology (EB). Application deadline: Coincides with EB abstract application deadline the-aps.org/tumsudenstudent and the-aps.org/tumsudenpostdoc

Fleur L. Strand Professional Opportunity Awards
Available to: Graduate students and postdoctoral fellows
Thanks to generous donations from several sources, the APS offers abstract-based awards for graduate students and postdoctoral fellows who are Society members and who have submitted first author abstracts to Experimental Biology (EB). Application deadline: Coincides with EB abstract application deadline the-aps.org/strandstudent and the-aps.org/strandpostdoc

Steven M. Horvath Professional Opportunity Awards*
Available to: Graduate students and postdoctoral fellows (underrepresented minorities)
Thanks to generous donations from several sources, the APS offers abstract-based awards for graduate students and postdoctoral fellows who are Society members and who have submitted first author abstracts to Experimental Biology (EB). Application deadline: Coincides with EB abstract application deadline the-aps.org/horvathstudent and the-aps.org/horvathpostdoc

Excellence in Professional Student Research Travel Award Program
Available to: Medical students
These travel awards are for MD/DO students involved in physiology research to allow them to present their research at the Experimental Biology (EB) meeting. Students must have a first author abstract being presented at EB. Awardees receive up to $1,800 in reimbursement for EB travel and registration. Application deadline: November 15 the-aps.org/md

ADInstruments Macknight Progressive Educator Award
Available to: Undergraduate faculty
This award honors an APS member who demonstrates the greatest potential for incorporating innovative teaching techniques and effectively utilizing technology resources in engaging undergraduate students in physiology education. Awardee receives up to $1,300 in reimbursement for travel and registration for Experimental Biology (EB) plus an institutional grant of a PowerLab PTB 4152 LabTutor Physiology Teaching Bundle or equivalent from ADInstruments. Application deadline: December 15 the-aps.org/adi

Bodil M. Schmidt-Nielsen Distinguished Mentor and Scientist Award
Available to: Established professionals
This award honors an APS member who has made outstanding contributions to physiological research and has demonstrated dedication and commitment to excellence in training of young physiologists. Application deadline: September 15 the-aps.org/schmidtnielsen
Fellowships

This is a partial listing of fellowships for trainees and career physiologists. For a complete listing, see the awards section of the APS website (the-aps.org/awards). Note that fellowships that specifically target underrepresented minority students and scientists are marked with an asterisk (*). All APS fellowships encourage applications from women and minority trainees and scientists.

Undergraduate Summer Research Fellowships
Available to: Undergraduate students
These fellowships support full-time 1st- through 3rd-year undergraduate students with minimal research experience to work 10 weeks in the laboratory of an established APS investigator and to attend the following year's Experimental Biology (EB) meeting. The program is open to any undergraduate worldwide. Fellows receive $4,000 stipend and up to $1,300 in reimbursement for EB travel; hosts receive $300 unrestricted grant.
Application deadline: February 1
the-aps.org/ugsf

Undergraduate Research Excellence Fellowships
Available to: Undergraduate students
These fellowships support full-time 1st- through 4th-year undergraduate students with significant research experience to work for 10 weeks in the laboratory of an established APS investigator and to attend the following year's Experimental Biology (EB) meeting. The program is open to any undergraduate worldwide. Fellows receive $4,000 stipend and up to $1,300 in reimbursement for EB travel; hosts receive $300 unrestricted grant.
Application deadline: February 1
the-aps.org/ueref

STEP-UP Fellowships for Underrepresented Undergraduate Students*
Available to: Undergraduate students
These fellowships support full-time undergraduate U.S. students from groups traditionally underrepresented in biology (e.g., from disadvantaged backgrounds and certain racial and ethnic groups and individuals with disabilities) to work for 8-12 weeks in the laboratory of an established APS investigator working in an NIDDK-related area. Students will also attend a STEP-UP symposium at the end of the summer with other STEP-UP fellows from across the U.S. Fellows receive $3,500 stipend and reimbursement for travel for the STEP-UP meeting.
Application deadline: February 15
the-aps.org/stepup

STRIPE Fellowships for Underrepresented Undergraduate Students*
Available to: Undergraduate students
These fellowships support full-time undergraduate U.S. students from groups traditionally underrepresented in biomedicine (e.g., from disadvantaged backgrounds and certain racial and ethnic groups and individuals with disabilities) to work for 10 weeks in the laboratory of an established APS investigator and to attend the following year's Experimental Biology (EB) meeting. Fellows receive $4,000 stipend and up to $1,300 in reimbursement for EB travel; hosts receive $300 unrestricted grant.
Application deadline: February 1
the-aps.org/stridge

IOSP Fellowships for Underrepresented Undergraduate Students*
Available to: Undergraduate students
Available to: Undergraduate students
The APS Integrative Organismal Systems Physiology (IOSP) fellowships provide hands-on summer research experience for undergraduate underrepresented students interested in exploring comparative and evolutionary biology research careers. The program provides exposure to IOS mission areas of comparative and evolutionary research. Fellows receive $4,000 stipend, $1,050 subsistence, and up to $750 in reimbursement for Experimental Biology (EB) meeting travel; hosts receive $500 unrestricted grant. Accommodations are available or students with disabilities.
Application deadline: February 2
the-aps.org/iosp

Porter Physiology Development Fellowships*
Available to: Graduate students (underrepresented minorities)
The Porter Physiology Development Fellowships offer a 1-2 year full-time graduate fellowship in programs at U.S. Institutions leading to the Ph.D. in the physiological sciences. 2012 fellowship payment was $28,300; applicants must be an APS member and enrolled in a U.S. Institution.
Application deadline: January 15
the-aps.org/porter

STRIDE Fellowships for Underrepresented Undergraduate Students*
Available to: Undergraduate students
These fellowships support full-time undergraduate U.S. students from groups traditionally underrepresented in biomedicine (e.g., from disadvantaged backgrounds and certain racial and ethnic groups and individuals with disabilities) to work for 10 weeks in the laboratory of an established APS investigator and to attend the following year's Experimental Biology (EB) meeting. Fellows receive $4,000 stipend and up to $1,300 in reimbursement for EB travel; hosts receive $300 unrestricted grant.
Application deadline: February 1
the-aps.org/ugsf

K-12 Minority Outreach Fellowships*
Available to: Underrepresented minority graduate students and postdoctoral fellows
The K-12 Minority Outreach Fellowship provides opportunities for trainees to visit K-12 classrooms, conduct workshops, and attend scientific meetings.
Application deadline: December 31
the-aps.org/k12minorityoutreach

Archive Scholars Online Workshop
Available to: Undergraduate and Community College faculty, High School teachers
Learn how a digital library and online community can help you in your classroom. This 8-week online workshop is designed to help educators become proficient digital library users, online community contributors, and web searchers. By the end of this program, educators will be experienced in utilizing the Archive of Teaching Resources (apsarchive.org) to find quality classroom resources and participate in professional development. Underrepresented minority faculty and faculty at minority-serving institutions are especially encouraged to apply.
Application deadline: Spring and Fall
the-aps.org/archivescholars

Events

APS Undergraduate Poster Session
Available to: Undergraduate students
This special session is held annually at Experimental Biology (EB) for all undergraduates who are attending the meeting and presenting a first author poster in a physiology session. This session includes a graduate program recruitment portion, general public portion for viewing posters, and an award session to present the video awards and the Bruce Excellence in Undergraduate Research Awards.
Application deadline: April 1
the-aps.org/uaposter

Porter Reception for Minority Physiologists*
Available to: Underrepresented minority students and scientists attending EB
This annual reception at the Experimental Biology (EB) meeting is an excellent opportunity to meet the APS Porter Fellows, Minority Travel Fellows and other minority physiologists at both early and established career levels. Date: First afternoon of EB (generally Saturday)
the-aps.org/minoritytravel

APS Undergraduate Orientation Session
Available to: Undergraduate students
This special Saturday orientation session welcomes all undergraduate students working in physiology who attend the Experimental Biology (EB) meeting. Members of the APS Career Opportunities in Physiology, Education, and Trainee Advisory Committees attend the session to offer advice to the students.
the-aps.org/ugorient

Professional Skills Training Courses
Available to: Graduate students, postdoctoral fellows and early career professionals
These professional development courses follow three tracks – track one focuses on scientific poster creation, presentation, networking, and abstract writing; track two focuses on writing and reviewing for scientific journals; and track three focuses on interviewing skills for an academic or industry position. Courses are offered online throughout the year. The one course currently offered live is the Writing and Reviewing Skills course held every January. Travel awards may be available for minority applicants.
Application deadline: Monthly
the-aps.org/pst
Resources

Additional teaching and career resources are available at the APS Education website (the-aps.org/education).

Archive of Teaching Resources/Communities of Practice
Available to: Educators at ALL levels: K-12, Community College/Undergraduate, Graduate/Professional
This collaborative digital library of peer-reviewed life science teaching resources is free and open to educators worldwide. Materials in the archive are provided by fellow educators as well as the Archive Partners – American Physiological Society (APS), American Association of Anatomists (AAA), Human Anatomy and Physiology Society (HAPS), Massachusetts Society for Medical Research (MSMR), Northwest Association for Biomedical Research (NWABR), and Society for Developmental Biology (SDB). New community tools allow interaction and collaboration among educators to recommend and review resources and build annotated collections.
the-aps.org/education

APS/ACDP Medical Physiology Learning Objectives
Available to: Medical faculty and medical students
This joint project of APS and the Association of Chairs of Departments of Physiology (ACDP) provides a list of medical physiology learning objectives in cardiovascular, cell and molecular, endocrinology and metabolism, gastrointestinal, exercise and integration, muscle, neurophysiology, renal, and respiratory physiology. Objectives were updated in 2012.
the-aps.org/medphysobj

Refresher Courses in Physiology
Available to: Early career and established physiologists
These courses are designed to provide both an intensive overview of content in one of the areas of physiology and opportunities to review new teaching methods and materials for physiology instruction. They are targeted especially for non-specialists who have teaching responsibilities in the refresher course’s content area. Courses are presented live at Experimental Biology (EB) and subsequently published as multimedia presentations, PowerPoint files, and journal articles.
the-aps.org/refresher

APS/ACDP List of Professional Skills forPhysiologists and Trainees
Available to: Undergraduate and graduate students, postdoctoral fellows, and early career professionals
This joint project of the APS and Association of Chairs of Departments of Physiology (ACDP) provides a list of necessary professional skills for success in physiology professions. The list is divided into nine major categories: Core Biomedical Science Knowledge, Professional Ethics, Laboratory-Related Skills, Research/Analytical Skills, Communication Skills, Teaching and Mentoring Skills, Personnel and Management Skills, Lifelong Learning Skills, and Career Development Skills.
the-aps.org/skillslist

Science Career Website for Undergraduate Students
Available to: Undergraduate students
This website provides information on the wide diversity of careers in physiology plus resources on making the most of your undergraduate years and issues to consider in selecting a graduate program or professional school.
the-aps.org/ugcareer

List of Institutions Granting Degrees in Physiology
Available to: High school, undergraduate and graduate students
This list of institutions can help students find degree programs in physiology at all levels. Contact persons are provided for all institutions.
the-aps.org/degrees

Career Development
Available to: All
One-stop source for advice and resources on career development and mentoring issues. Topics include career choices and planning, mentoring and being mentored, professional networking, presenting research: speaking and writing, job search and interviews, managing a lab and personnel, teaching, advancement and promotion, and balancing career and family. Includes presentations from symposia organized by the APS Trainee Advisory, Women in Physiology, and Career Opportunities in Physiology Committees.
the-aps.org/careers

Mentoring Forum
Available to: All
Articles and discussions on the critical professional activity of mentoring and being mentored.
the-aps.org/mentorforum

MentorNet
Available to: Undergraduate students through senior physiologists
Students and trainees can discuss questions about their career and life planning with experienced mentors in this award-winning online forum and program. For established APS members, you can make a difference in the career of a young physiologist. Mentors are needed for the program.
Application deadline: Apply at any time
the-aps.org/mentorint

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