AAAS SCIENCE & TECHNOLOGY POLICY FELLOWSHIPS

Plug the power of science into public policy
The Fellowships aim to:

• Educate scientists and engineers on the intricacies of federal policymaking
• Provide scientific and technical knowledge to support development of well-informed policies
• Foster positive exchange between scientists and policymakers
• Empower scientists and engineers to engage in policy-relevant research and other activities that addresses challenges facing society
• Increase the involvement and visibility of scientists and engineers in the public policy realm

Create more policy-savvy scientists and engineers
What is Science Policy?

1. **Policy for Science**
   - Develop and determine STEM education and R&D funding priorities and directions; establish guidelines and regulations on practice and conduct of science.

2. **Science for Policy**
   - Inform and enhance the development, decisionmaking, implementation, monitoring and evaluation of policies and resulting programs and regulations.
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<tr>
<th>Policy for Science</th>
<th>Science for Policy</th>
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<td>Funding directions and levels</td>
<td>Climate change adaptation and mitigation</td>
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<td>Human/Animal subjects</td>
<td>Neuroethics implications</td>
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<td>Pipeline of researchers</td>
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<td>Visas for foreign scientists</td>
<td>Marine fisheries catch quotas</td>
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Five Fellowship Areas

• Diplomacy, Security & Development
• Health, Education & Human Services
• Energy, Environment & Agriculture
• Congressional
• Roger Revelle Fellowship in Global Stewardship
Diplomacy, Security & Development

25-40 placements

Anticipated placement opportunities:

» Agency for International Development
» Department of Defense
» Department of Homeland Security
» Department of State
» NIH Fogarty International Center
» USDA Foreign Agricultural Service
Health, Education, & Human Services

25-40 placements

Anticipated placement opportunities:

» Department of Health & Human Services
» Department of Veterans Affairs
» National Institutes of Health
» National Science Foundation
» USDA Food Safety Inspection Service
Energy, Environment & Agriculture

25-40 placements

Anticipated placement opportunities:

» Department of Energy
» Environmental Protection Agency
» National Aeronautics and Space Administration
» National Oceanic & Atmospheric Administration
» National Science Foundation
» U.S. Department of Agriculture (including Forest Service)
» U.S. Geological Survey
Congressional

2 placements (via AAAS)

Anticipated placement opportunities:
» Offices of members of Congress
» Congressional committees

Additional Congressional fellowships are available through more than 30 scientific and engineering society partners

Go to http://fellowships.aaas.org and click on “Society Partners”
Roger Revelle Fellowship in Global Stewardship

1 Placement

Anticipated placement opportunities:

» Federal agencies
» Congressional offices or committees
» Environmental or sustainability oriented non-profit organizations in Washington, DC.

This fellowship is open only to applicants with three years of post-degree professional experience (or six years of post-degree experience for applicants with an MS in engineering).
Executive Branch Activities

• Collecting and analyzing information from a range of sources and developing options

• Meeting with and presenting to public, interest groups, industry

• Writing briefings, talking points and text for speeches and reports, and facilitating sign-off processes

• Prepping for hearings: researching and drafting responses to questions, supporting agency staff providing testimony

• Program and policy planning, development, implementation, monitoring and evaluation (policy, regulations, budgets, meetings, outputs and longer-term outcomes)

• Facilitating interagency collaborations and stakeholder relations; serving on negotiation teams to prepare for and represent the interests of the U.S. Government

Lesley Blancas, 2006-08
Diplomacy Fellow, U.S. Department of State (back right). Press for signing S&T bilateral agreement with Uruguay, printed on front page of Uruguay’s national newspaper.
Activities in Congress

- Collecting and analyzing information from a range of sources and developing options
- Meeting with constituents and special interest groups
- Writing briefings, talking points, and text for speeches
- Organizing hearings: researching, selecting and prepping witnesses, developing questions, supporting Member
- Drafting and negotiating legislation
- Monitoring policy implementation

Greg Hinrichsen, 2007-08 APA Congressional Fellow

Staffed senator at aging committee hearings (review of testimony, authored suggested remarks/questions for witnesses, available for consultation during hearings)
Fellows’ Contributions

- **International Coalitions:**
  Consulted with non-governmental and research organizations in Mexico and Belize to organize a planning workshop for a bi-national coastal management coalition.

- **Disaster Relief:**
  Served as task force deputy to organize the U.S. tsunami recovery effort and launch long-range policy discussions on an early warning system.

- **Scientific Capacity/Nonproliferation:**
  As special advisor to the Coalition Provisional Authority, participated in program to direct Iraqi weapons scientists into new careers.

*Horacio Murillo, 2005-06 AAAS Congressional Fellow*
Fellows’ Contributions

- **Science Outreach:**
  Organized a congressional press conference with a member of the Backstreet Boys to urge insurance companies to provide coverage for colorectal cancer screening among people over 50 years old.

- **Agency Infrastructure:**
  Oversaw a multi-million dollar software program to develop a computer security system for DoD computer networks nationwide.

- **Education Reform:**
  Evaluated testing mandates at the primary and secondary levels to determine ultimate direction for federal spending in education.
Fellowship Benefits

**STIPEND/SALARY:**
$74,000 – 97,000 depending upon experience or previous salary

**HEALTH INSURANCE:**
Reimbursement for Fellow and family coverage

**RELOCATION REIMBURSEMENT:**
Up to $4,000 if relocation is more than 50 miles from Washington

**TRAVEL/TRAINING ALLOWANCE:**
Up to $4,000 with prior approval of fellowship supervisor

**PROFESSIONAL DEVELOPMENT:**
Intensive orientation in September and year-long program

**ALUMNI NETWORK:**
More than 2,300 former Fellows working in DC and around the world
Qualifications:

• Hold a doctoral-level degree (PhD, MD, DVM, DSc) in any scientific or engineering discipline
  » All degree requirements must be completed by 12/5/2011
  » Individuals with a master’s degree in engineering & three years of post-degree professional experience also may apply

• Show a commitment to apply your scientific or technical expertise to serve society

• Exhibit good communication skills, especially to non-scientific audiences

• Demonstrate problem-solving ability, initiative, leadership qualities, and flexibility

• Hold U.S. citizenship
2011-2012 Class

- **255** Year-long Fellows -- *The largest class in AAAS Fellowships history!*

- **220** Executive Branch Fellows
  - 207 selected & administered by AAAS
  - 13 selected & administered by partner scientific and engineering societies

- **35** Congressional Fellows
  - 2 selected & sponsored by AAAS
  - 33 selected & sponsored by partner societies

- **180** First-year Fellows

- **75** Second-year Executive Branch Fellows

- **9** Short-term Executive Branch extensions (2-6 months)
2011-12 Fellows Represent

• An array of Sectors
  » Academic institutions
  » Nongovernmental organizations
  » Intergovernmental entities
  » Private industry
  » Government labs
  » Independent consultants

• A Broad range of disciplines
  » Behavioral/Social
  » Biological
  » Engineering/Computational
  » Geosciences
  » Health/Medical
  » Physical
Years Since Qualifying Degree
All Yearlong Fellows (n=210)
2011-12 Gender Breakdown
Yearlong Fellows (N=255)

65% Female
35% Male

STEM Doctoral Degrees 2005

Female 65%
Male 35%

Source: NSF 2009 Report to Congress
"How selective are the fellowships?"

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<th>INTERVIEWS</th>
<th>FINALISTS</th>
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<td>Congressional</td>
<td>71</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>DSD</td>
<td>189</td>
<td>96</td>
<td>74</td>
</tr>
<tr>
<td>EEA</td>
<td>155</td>
<td>96</td>
<td>70</td>
</tr>
<tr>
<td>HEHS</td>
<td>228</td>
<td>72</td>
<td>49</td>
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May apply for two AAAS fellowship areas

Application Materials

Candidate Data:
- Areas of scientific specialty (key words)
- Areas of policy interest
- Brief bio (200 words max)

Candidate Statement:
- Reasons for applying for a AAAS Fellowship
- Summary of background & expertise
- Areas of Interest
- Career Goals
- 1,000 words max

Curriculum Vitae:
- Education, expertise, achievements, honors & publications
- 2,000 words max

Extracurricular activities:
- Brief examples of activities beyond the lab or classroom
- 500 words max

References:
- Three recommendation letters are required
Online Application Opens: September 1, 2011
Online Applications Due: December 5, 2011
Notification of Eligibility: Late December 2011
Notification of Interview: February 2012
Interviews: Early March 2012
Notification of Finalists: Mid-March 2012
Finalist Placement Week: April 2012
Placement Offers: May – June 2012
Fellowships Begin: September 1, 2012
Fellowships End: August 31, 2013
Post-fellowship Opportunities
(year after fellowship)

Remain in public policy: 40-50%
» Pursue a second fellowship year
» Hired into FT post at host agency or office
» Work for another federal agency, Congress or CRS
» Pursue policy posts at local, state, regional, international levels
» Take a position at a professional society, think tank, nonprofit in policy/government relations

Return to work in the same sector: 20-25%
» Return to previous position (sabbatical)
» Obtain new position in the same field/sector

Do something completely different: 20-25%
» Move into a position in a new sector
» Start a new academic degree program
Post-Fellowship Positions

- **Industry/Private Sector**
  Alice Chen, 2007-09 EEA Fellow at the Environmental Protection Agency
  *Now a scientist, Keller and Heckman LLP*

- **Academia**
  Stephanie Adams, 2005-06 HEHS Fellow at the National Science Foundation
  *Initially returned to post as associate dean, Dept of Engineering, University of Nebraska.*
  *Now an associate dean at Virginia Commonwealth University.*

- **Intergovernmental/International**
  Winston Yu: 2003-05 DSD Fellow at the State Department
  *Now a water resource specialist in Agriculture and Rural Development, at the World Bank*
Post-Fellowship Positions

• Congress
  Ali Nouri: 2008-09 AAAS Congressional Fellow in the Office of Senator James Webb (D-VA)
  *Hired as Legislative Assistant, Office of Senator Webb*

• Executive Branch
  Patricia Sokolove: 2003-05 HEHS Fellow at the National Institutes of Health
  *Hired by NIH as Director of Interdisciplinary Training Programs*

• NGO
  Kathy Kahn: 2006-08 DSD Fellow at the Foreign Agricultural Service, USDA
  *Now a Program Officer, Gates Foundation*

Jeff Albert, 2004-05 EEA Fellow at EPA; Ranjiv Khush, 2004-05 DSD Fellow at the State Department
Online Applications Due: 12/5/2011
Apply at http://fellowships.aaas.org
Questions? 202-326-6700 or fellowships@aaas.org