Opportunities and Possibilities for Marine and Environmental Science Students

Leonard Pace
My Experience

- Science Assistant – NSF
- Lead Management Consultant – BAE Systems
- Program Analyst – 2020 LLC
- Virginia Institute of Marine Science – MS
- Hampton U. – BS
- John A. Knauss Fellow
- Hall Bonner Fellow
- EPA Greater Research Opportunities Fellow
- American Society of Limnology and Oceanography
- American Geophysical Union
- Minorities Striving to Pursue Higher Degrees of Success
- NOAA Research Cruise ‘05, ‘06, ‘08
- Sea Education Association 2001
- MAST Cruise 2001
- Volunteer Research Assistant – Gansbai, South Africa
- Research Intern – McMurdo, Antarctica
- EPA Summer Intern – Edison, NJ
- Student Conservation Association – Ann Arbor, MI
Your Experience

- Classroom
- Internship/Fellowship
- Volunteering
- Summer Jobs
Graduate Funding Sources

Explore Labs of Interest – Get to Know Potential Advisors

https://scripps.ucsd.edu/
http://www.whoi.edu/
http://www.nicholas.duke.edu/
http://www.rsmas.miami.edu/
http://www.wwu.edu/gradschool/programs.shtml
http://www.vims.edu/

International
http://rsrc.kaust.edu.sa/Pages/Home.aspx
http://www.kaiyodai.ac.jp/english-c/
http://www.bangor.ac.uk/oceansciences/
http://sea.uct.ac.za/

Specific Schools
http://www.csulb.edu/depts/marine-biology/Scholarships.htm
http://uncw.edu/bio/undergrad-awards.html
http://science.hamptonu.edu/mes/hall_bonner.cfm
Graduate Funding Sources (cont’d)

National Science Foundation
  Graduate Research Fellowship
  www.nsf.gov/grfp
  Award Search Database
  http://www.nsf.gov/awardsearch/

NOAA
  http://fosterscholars.noaa.gov

EPA STAR & GRO
  http://Es.epa.gov/ncer/fellow/

NASA Interns, Fellows, and Scholars
  https://intern.nasa.gov/ossi/web/public/main/

National Defense Science & Engineering
  ndseg.asee.org

Ford Foundation
  http://sites.nationalacademies.org/pga/fordfellowships/
Internship/Fellowships

National Science Foundation
- Research Experience for Undergraduates
  www.nsf.gov/home/crspgm/reu
- Graduate Research Fellowship
  www.nsf.gov/grfp

EPA STAR & GRO
  http://Es.epa.gov/ncer/fellow/

Student Conservation Association
  www.sca.org

Society for Conservation Biology
  www.conbio.org/jobs

International Ocean Drilling Program
  www.oceanleadership.org/education/diversity/iodp-usio-diversity-internship/

CHCI Fellowships
  http://www.chci.org/fellowships/

Knauss Marine Policy Fellowship
  www.seagrant.noaa.gov/knauss
Fellowships
AAAS Science and Public Policy Fellowship

Establish and nurture critical links between federal decision makers and scientific professionals

Hosts

Congress
National Defense and Global Security - FBI, DOD, DHS
Diplomacy - NIH, Dept. of Ag., USAID, State
Energy, Environment, Ag, and Natural Resources - NOAA, NSF, Army Corps, USDA, DOE, EPA

Participate firsthand and contribute to the federal policymaking process

www.fellowships.aaas.org
To attract to the Federal service outstanding men and women from a variety of academic disciplines
All executive, legislative, and judicial branches of government
Job fair
Rotational assignments

www.pmf.opm.gov
Peace Corps and AmeriCorps

Goals

- Helping the people of interested countries in meeting their needs for trained men and women
- Helping promote a better understanding of Americans on the part of the peoples served

What volunteers do

- Education, youth outreach, and community development
- Business development
- Environment
- Agriculture
- Health
- HIV/AIDS
- Information Tech.

Travel

- Central and South America, Caribbean, Africa, Eastern Europe, Asia; Pacific Islands

Benefits

- Living allowance and Student loan cancellation (Perkins)
- Network
Conference Attendance

Minorities Striving to Pursue Higher Degrees of Success (MSPHDS)
www.msphds.org

American Society of Limnology and Oceanography Multicultural Program
www.hamptonu.edu/academics/schools/science/marine/also
http://science.hamptonu.edu/mes/programs.cfm

American Geophysical Union
www.agu.org

American Fisheries Society
www.fisheries.org

International Coral Reef Symposium
www.icrs2012.com

International Congress for Conservation Biology
www.conbio.org/Activities/Meetings/2011
Your Career

Academia
  Teaching
  Research
  Laboratory

Government
  State
  Local
  Federal
  International

Non-Governmental Organizations

Private
  Consulting Firms
  Oil & Gas
  Funding Institutions
  Contract Companies
NETWORK!!!
Employment Possibilities

Hazard Resilience

Southern California Earthquake Center
http://scec.org
Government

Local
Municipal scale
Dedicated projects

State
City or State level view

Federal - Headquarters
High perspective / Policy drive
Program/Project Management

Federal - Field Office
Mid level perspective / Implementation
Specific project/issue oriented

International
Organized similar to Federal Agencies

[Images of government logos: EPA, NIH, NOAA, FAO, UN]

www.usajobs.gov
Employment Possibilities

Marketable Skills

- Dive Qualification
  - Master/Scientific
- GIS
  - Degree/ESRI Certification
- Federal Statutes
  - NEPA
  - CERCLA
  - NHPA
- Engineering Standards
  - Energy Star
  - LEED
- Speaking & Writing Abilities
- Graphic Design/Web Development
- Economic/Finance
  - Budget Maintenance
- Language Fluency
Non-Governmental Organization

Non-Profit

Very mission/target oriented

Restoration and conservation driven
Employment Possibilities

Green/Climate Change

www.idealist.org
www.grist.org
www.sustainablebusiness.com/jobs
www.ethree.com
Private Consulting Firms
Profit driven
Target oriented
Very focused research
Permitting
Contract based
Industry
Funding Institutions

Governmental
Program/project management

Private
Program/project management
Contracting

BAE Systems
Booz Allen Hamilton
Northrop Grumman
Lockheed Martin
ICF International
IMSG (NOAA)
2020 LLC (NOAA)
Perot Systems
REMSA