



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.who.edu/>

<http://www.nicholas.duke.edu/>

<http://www.rsmas.miami.edu/>

<http://www.wvu.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/pgafordfellowships/>

Internship/Fellowships

National Science Foundation

Research Experience for Undergraduates

www.nsf.gov/home/crsprgm/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

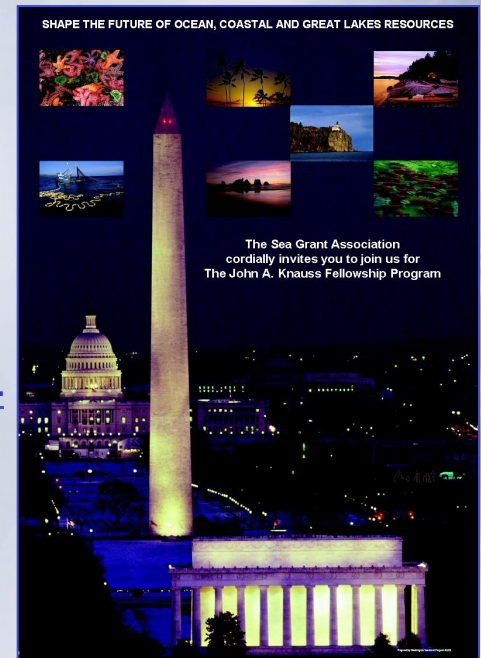
www.oceanleadership.org/education/diversity/iodp-usio-diversity-internship/

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

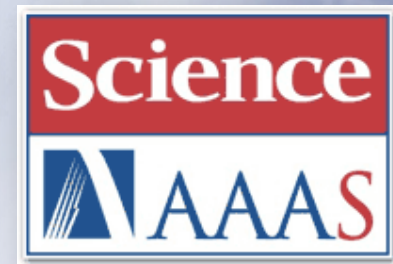
Congress

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



Fellowships Cont' d

Presidential Management Fellowship

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



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!!!

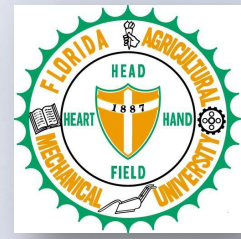
Employment Possibilities

Science Communication



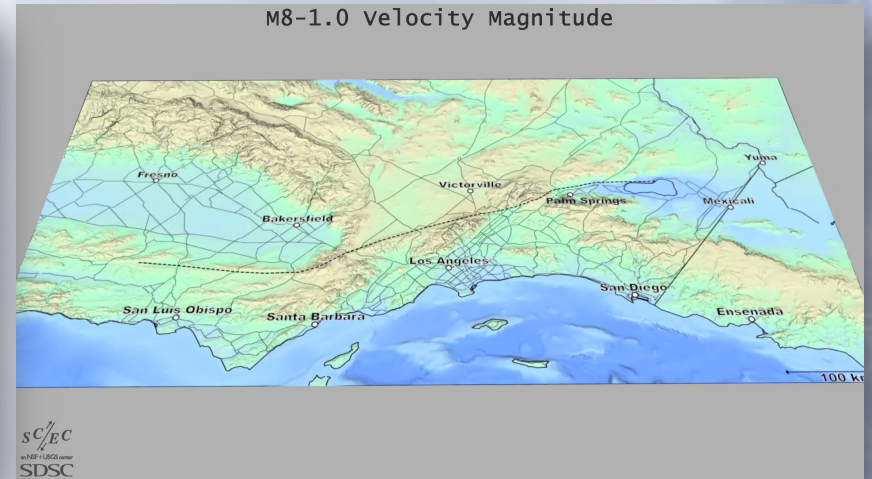
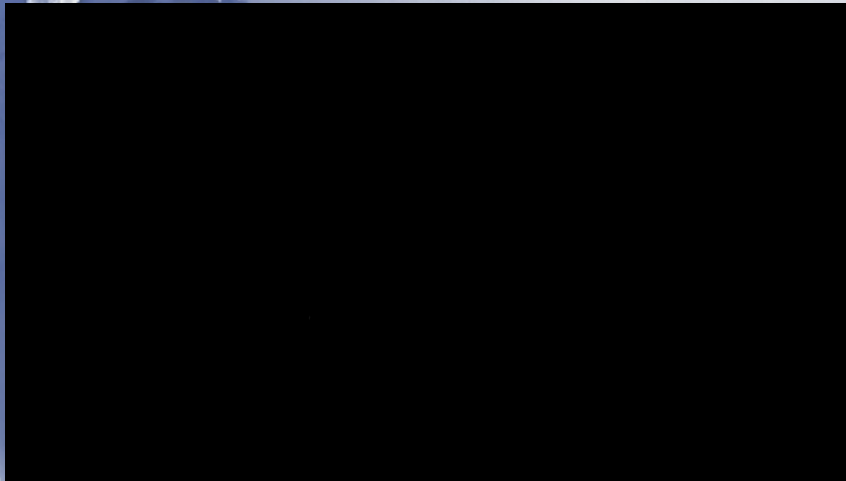
Academia

Teaching
Research
Laboratory
Managing
Technician



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

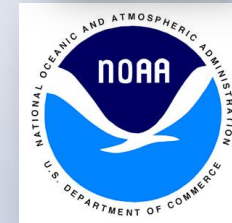
Federal - Field Office

Mid level perspective / Implementation

Specific project/issue oriented

International

Organized similar to Federal Agencies



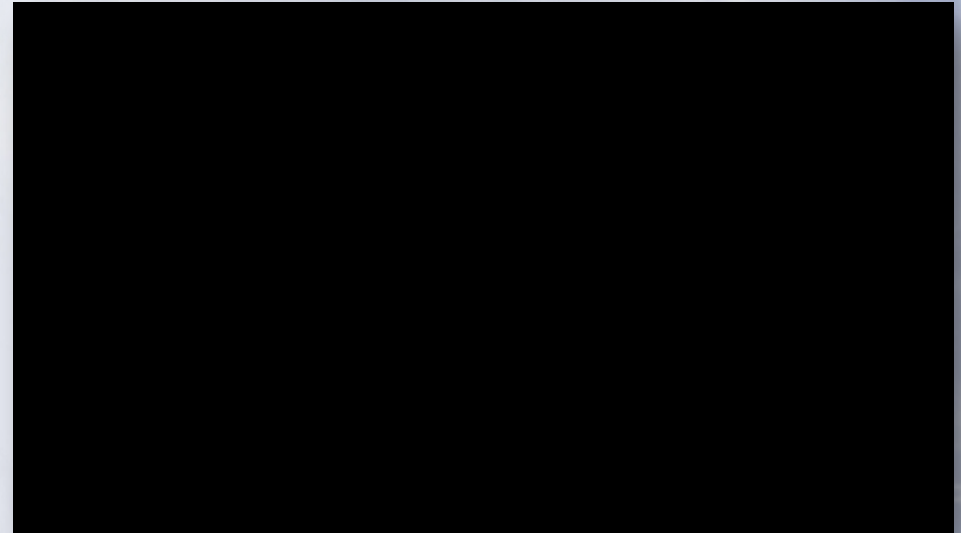
www.usajobs.gov



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

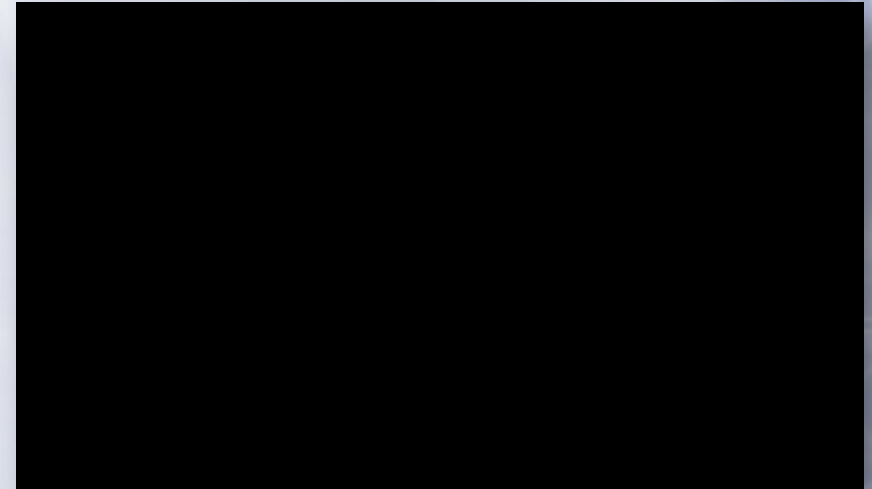
Green/Climate Change

www.idealists.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



Booz | Allen | Hamilton

strategy and technology consultants to the world

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

