Rutgers iJOBS

Interdisciplinary Job Opportunities for Biomedical Scientists

A Program Overview

www.ijobs.rutgers.edu
Changing Times

According to a recent report by the NIH Biomedical Workforce Working Group, approximately 23% of PhD graduates will pursue academic positions, while 77% will pursue other career options.
17 NIH BEST Awards
(Broadening Experiences in Scientific Training)
$2 million for 5 years
Infrastructure support.
No direct fellow funding.

1. Cornell U
2. Emory/Georgia Tech
3. NYU
4. U Mass Worcester
5. UC Davis
6. UCSF
7. U Colorado Denver
8. Vanderbilt U
9. Virginia Polytech
10. Wayne State

Common goals
Shared programming
Active evaluation
Process improvement

1. Rutgers U
2. U Chicago
3. U North Carolina
4. U Rochester
5. UC Irvine
6. Boston U
7. Michigan State
Rutgers’ program, **Interdisciplinary Job Opportunities for Biomedical Scientists (iJOBS)** will empower our PhD students and postdocs to take action toward career development and build the knowledge, professional network, and experience needed to reach their career objectives.

Grant awarded Sept 2014
Program launch Jan 2015
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<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Martin Yarmush</td>
<td>Distinguished Professor of Biomedical</td>
<td>School of Engineering</td>
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<td>Engineering</td>
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<td>James Millonig</td>
<td>Senior Associate Dean</td>
<td>Graduate School of Biomedical Sciences (GSBS)</td>
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<td>Janet Alder</td>
<td>Assistant Dean for Graduate Academic &amp;</td>
<td>GSBS – New Brunswick/Piscataway</td>
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<td>Student Affairs</td>
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<td>Susan Engelhardt</td>
<td>Executive Director</td>
<td>Center for Innovative Ventures of Emerging</td>
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<td>Technologies</td>
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<td>Carol Lutz</td>
<td>Assistant Dean for Curriculum</td>
<td>GSBS - Newark</td>
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iJOBS Participation

Rutgers Graduate Students

- GSNB (New Brunswick)
- GSBS (Piscataway)
- GSBS (Newark)
- GSN (Newark)
- GSN (Camden)

Rutgers Postdocs

- RWJMS
- NJMS
- SAS New Brunswick
- SoE
- SoP
- SEBS
- SAS Newark
- SAS Camden

Free shuttle transportation provided
Professional and Trade Support Abounds
Examples of Career Tracks

- Science and Health Policy
- Intellectual Property Management
- Non-Academic Research and Development
- Clinical and Regulatory Testing Support
- Health and Science Data Analysis
- Business Consulting
- Scientific Writing
- Medical Affairs
Phased Programming

SciPhD Leadership and Business Training
Professional site visits
Professional networking sessions
Informative seminars
Web portal enrichment

Individual development planning & mentorship
Career-specific courses
Professional shadowing

Resume development
Interview preparation
Career fair
Job placement and tracking

Continued participation
Support and mentoring

Phase 4
iNSTRUCT

Phase 3
iMPLEMENT

Phase 2
iINITIATE

Phase 1
iNQUIRE

1300 eligible trainees
433 attended at least 1 event
7,200 person hours
Phase 1
SciPhD: Leadership and Business Skills for Scientists

Provided by Human Workflows, LLC
January - February, 2016/40 hours

- The Business of Science
- Successful Communications as a Scientist
- Developing Your People
- Networking and the Interview Process
- Negotiations
- Team Performance Tools
- Major Leadership Styles
- Financial Literacy
- Strategic Project Management for Scientists
# Site Visits

## Past
- CCIT
- DoH
- Merck

## Upcoming
- Celgene

## Site Visits Table

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<td>Institute for Life Science Entrepreneurship</td>
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<td>Eli Lilly/ImClone</td>
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<td>Pharmaceutical Medical Information</td>
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Workshops: Job Search

Resume/CV Development for Graduate Students*

Networking On & Off-Line for Graduate Students*

How to Prepare for Job Fairs & Networking&

Interviewing Skills for Graduate Students*

How to Prepare for an Informal Interview

Find and Apply for an Internship

Offered in partnership with: * Rutgers Career Services & BioNJ
Workshops: Career Focus

- Patent Law Case Study
- Biological Data and Python
- Communicating Science
- Scientific Analysis in Policy Making *
- Business Consulting Case Study
- Researcher Plan for Success
- How to Break Into Biotech and Science Writing
- Science Storytelling
- How Science Affects Political Decisions *
- Transferrable PhD Skills

* Offered in partnership with The Eagleton Institute
BioNJ/iJOBS Career Fair
April 21, 2015 and April 14, 2016
42 companies
Phase 2
Career Track Example
Skill Classes
One 40-Hour Class

Programming Methodologies for Numerical Computing

Drug Discovery through Preclinical Development

Introduction to Public Administration; Public Policy Formation

Practical Aspects of Clinical Trial Design

Bioengineering in Biotech and Pharma Industries

Pharma Project Management

Fundamentals of Regulatory Affairs

Project Management; Perspectives in Drug Development

US Healthcare System ad Pharma Managed Markets

Drug Development: From Concept to Market

Project Management

Clinical Trials, Adverse Event Reporting, Post-Marketing

Innovation and Entrepreneurship

Accounting and Finance

Rutgers Programs
Professional Shadowing and Mentoring

- Industrial, institutional and governmental partners host externships at their places of business and within applicable organizations and serve as trainee mentors.
- Each trainee is matched to a mentor and a shadowing opportunity relevant to their chosen track.
- Shadowing experiences can be singular, cross-firm, and/or span tracks.
Individual Development Planning

• Serves as a tool to support and organize trainees’ academic progress and career development by developing and tracking annual goals.

• NIH requires IDPs for all training grants

• NIH Office of Management and Budget states that predoctoral and postdoctoral trainees have dual roles as trainees and employees and therefore must engage in both training and career development (NOT-OD-15-008)

• Research shows that IDPs increase productivity (postdoc.sigmaxi.org/results)
Representative iJOBS Successes

How to Participate in iJOBS

Laboratory Research is #1 Priority
Communication Platforms

Email listserve: 1300 members

Trainee run blog:
ijobs.rutgers.edu/blog.php

Website: ijobs.rutgers.edu
Program Registration

Phase 1
- iJOBS programming open to all pre and post-doctorates as well as recent alumni.
- Some events have limited capacity; participants register on a first come, first served basis.
- PI approval required for participation in first Rutgers iJOBS event. We will contact PI.

Phase 2
- Graduate students must be in 3rd year or above and have completed propositional qualifying exam. Postdocs are eligible at any time.
- Trainee application approval based upon Phase 1 participation (12 hours), letter of intent, letter of recommendation. PI approval for participation is required with application.
Program Registration Details

• Registration links for all events will be listed on the iJOBS web site, posted on the iJOBS web calendar and open to registration 4 weeks prior to the event date at 12:00 PM.
• For example, an event will take place on Tuesday February 10, 2016. Registration opens Tuesday January 13, 2016 at 12:00 PM.
• If registration is limited, confirmation will be sent to those that are successfully enrolled in the event.
Program Completion

- Program is very flexible.
- Trainees that complete required program elements will earn a “Certificate of Attestation”. If you want a certificate, required program elements are:
  - At least 12 hours of participation in Rutgers iJOBS programming
  - Completion of the SciPhD Leadership and Business Skills for Scientists Workshop
  - Shadowing
  - Completion of one Career Track Skill Class
Workshop: Job Search Using Staffing Agencies - September 7 from 4:30-6pm

Networking Event: Students, Postdocs and Alumni - September 15 from 5-8pm

Workshop: Politics of Climate Change - September 23 from 8:30am-1pm

Case Study: Pharma Market Research - September 26 from 4:30-6pm

Career Panel: Science Communications - October 5 from 4:30-6pm

Networking Event: American Association of Pharmaceutical Scientists - October 10 from 4:30-6pm

Workshop: Drug Development in Biotechnology - October 21 from 9:30-4pm

Workshop: Science Business Writing - October 28 from 1-4:30pm

Career Panel: Non-Faculty Jobs for PhDs at Universities - November 9 from 4:30-6pm

Site visits to Colgate, Envigo, Bristol Myers Squibb
Questions?

www.ijobs.rutgers.edu

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