Biomedical Sciences
PhD and MS Orientation

Jim Millonig, PhD - Senior Associate Dean
Janet Alder, PhD - Assistant Dean
School of Graduate Studies – New Brunswick/Piscataway

August 30, 2017
Staff of the School of Graduate Studies – Biomedical Sciences in New Brunswick/Piscataway

RWJMS Research Tower R-102

James Millonig, PhD, Senior Associate Dean

Janet Alder, PhD, Assistant Dean of Graduate Academic and Student Affairs

Smita Thakker-Varia, PhD, Assistant Dean of Graduate Academic and Student Affairs

Perry Dominquez - MD/PhD Program, finance and fee information
domingpr@rutgers.edu

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  cicoletm@rutgers.edu

Johanna Sierra – Masters programs
  sierrajo@rutgers.edu
Biomedical Science Programs in New Brunswick/Piscataway

**Molecular Biosciences Umbrella Program**
- Cell and Developmental Biology
- Biochemistry and Molecular Biology
- Cellular and Molecular Pharmacology
- Physiology and Integrative Biology
- Molecular Genetics and Microbiology

**Individual Graduate Programs**
- Biomedical Engineering
- Exposure Science and Assessment
- Toxicology
- Neuroscience
School of Graduate Studies

Cancer Institute of New Jersey

The Child Health Institute for Basic and Clinical Research

Clinical Academic Building

School for Environmental and Biological Sciences

New Brunswick

Piscataway

Raritan River

Cook/Douglass Campus

Livingston Campus

Busch Campus
Rutgers Facts

- Member of Association of American Universities and Big10 Academic Alliance
- Ranked 24th of 224 top US universities by the Center for World University Rankings (2016)
- $658 million annually in research R&D expenditures, among the top 20 public universities in the nation
- Among the top 3 public universities in the Northeast in receipt of Sloan Research Fellowships and National Science Foundation Faculty Early CAREER development awards.
- Top 10% of American universities in science and engineering research and development expenditures.
- Top 3 nationally in National Science Foundation Integrative Graduate Education and Research Traineeship funding.
Our faculty hold prestigious positions

Rutgers has more faculty in the National Academy of Sciences and the American Academy of Arts and Sciences than any other public peer school in the Northeast.

In biomedical sciences, 8 faculty selected just this year to AAAS and 1 to National Academy

Martin Yarmush  Suzie Chen  Charles Dismukes  Terri Kinzy

Tony Kong  Peter Lobel  Pal Maliga  Chris Molloy  Monica Roth
Our faculty have won prestigious awards

Dr. Evelyn Witkin was selected for the Lasker Award in 2015 for her discoveries concerning the DNA-damage response. The Lasker Award given annually since 1945 to living persons who have made major contributions to medical sciences. The awards are sometimes referred to as "America's Nobels". Eighty-six Lasker laureates have gone on to receive the Nobel Prize.

Dr. Joachim Messing was selected for the Wolf Prize in Agriculture in 2013 for his research efforts and innovations in recombinant DNA cloning and for deciphering the genetic codes of crop plants. Because there is no Nobel Prize in this category, the Wolf Prize in Agriculture is also regarded on par with the Nobel Prize.
Rutgers houses world-renowned resources

- Largest DNA and cell repository in the world for the study of genetics and autism, mental health, drug abuse, alcoholism, diabetes, and digestive and kidney disease.

- Host to the Protein Data Bank, the single worldwide repository for 3D protein structures.
Your education
Competencies learned in graduate school – transferrable skills

• **Broad conceptual knowledge** - core courses
• **Deep knowledge of a specific field** - upper level courses, thesis work, and journal clubs
• **Critical thinking** - reading papers, planning experiments, reviewing grants and manuscripts
• **Experimental skills** - rotations and thesis lab, collaborations
• **Responsible conduct of research** – Ethical Scientific Conduct initial and refresher
• **Rigor and reproducibility/Computational skills** - Biostatistics classes
• **Collaboration/Teamwork** – working with other labs and within lab, student organizations
• **Management and emotional intelligence skills** - manage your own project, supervise undergraduates, interact with faculty and peers
• **Leadership and professionalism** – join student organizations, volunteer for events
• **Communication skills** - presentations in lab, university, and national meetings, writing manuscripts and fellowships
Typical timeline

Year 1
Lab match
Qualifying exam A
Propositional
Qualifying exam B
Annual thesis advisory committee meetings
Thesis defense

Statistics:

Time to defense: ~5.7 years
# of publications: ~3 papers, ~1.4 first author
Some recent manuscripts


Przemyslaw Swiatkowski “Role of Akt-independent mTORC1 and GSK3β signaling in sublethal NMDA-induced injury and the recovery of neuronal electrophysiology and survival.” Scientific Reports, May 2017.

Steven Huhn “Regulation of spindle integrity and mitotic fidelity by BCCIP” Oncogene, April 2017.

Tzeh Keong Foo “Compromised BRCA1-PALB2 interaction is associated with breast cancer risk” Oncogene, March 2017.


Larry Cheng “Integrating phosphoproteomics into the clinical management of prostate cancer.” Clinical Translation Medicine, February 2017.


Philip Tedeschi “NAD+ Kinase as a Therapeutic Target in Cancer.” Clinical Cancer Research, November 2016.


Aaron Shatkin Scholarship 2017

Awarded to 3 graduate students annually for distinguished research work over the applicant's tenure at Rutgers University

Each awardee receives $1500 to supplement graduate stipend and $1500 for educational purposes
Stanley S. Bergen, Jr. Medal of Excellence 2017

Katherine Morgan, MD/PhD candidate
Pine lab CINJ; published 7 papers, F30 fellowship


Graduation Awards

PhD Dissertation Excellence 2017
Heather McGowan (Pang lab)
- 2 papers published
- 2 more in preparation
- NIH F31 fellowship
- Trisomy 21 travel award
- Aaron Shatkin Scholarship

Teaching and Service Award 2017
Stephanie Oh (Mouridian lab)
- Student director of Promise Clinic
- Raised over $30,000 to expand services
- Restructured to provide better and improved services
- Developed interdisciplinary teams Pharmacy, Social Work, PA Program, SPH, and Anthropology to provide better services
- Develop medical based experiential curriculum for graduate students in Social Work and Anthropology
Individual Development Plans (IDP)

• Educational research has shown that IDPs increase productivity (e.g. http://postdoc.sigmaxi.org/results/)

• NIH is now requiring IDPs for all training grants and NIH Office of Management and Budget sent notice that grad students have dual roles and must engage in both training and career development.

• **First** and third year graduate students will do the AAAS online IDP (http://myidp.sciencecareers.org/) and upload to Sakai by Aug 31, 2018.

• Second and fourth year graduate students will complete Rutgers IDP modeled from the ones at Scripps and UCSF and meet with an IDP committee (outside member in potential career area)
Perks for Biomedical PhD Students

Travel Awards – post propositional exam B, all are eligible for two $600 travel awards for domestic travel of one award of $1200 for international travel to 1) scientific meetings, 2) for research related activities, or 3) for career training related activities. Form must be approved PRIOR to the travel.

Fellowship bonus – students that are awarded a competitive individual fellowship that covers at least 80% of the student’s stipend will receive a supplement of $2,000 per year for the duration of the award.

NYAS Sciences – biomedical PhD students get free membership which allows attendance at scientific and career development events at NY Academy of Sciences.
New Courses

Communicating Science
• Response to input from industry and academia
• Grant from Burroughs Wellcome Fund (Ponzio PI)
• Only one in the country with communications as its goal
• Techniques from Alan Alda Center
• Started in spring 2017 for post qualifying students

Biostatistics Classes
• As per NIH requirement to increase training for rigor and reproducibility of science
• New sections of NIH grants
• 1 of 3 schools to participate in pilot program of webinars funded by NIH R25 grant (DiCicco-Bloom PI) in 2016
• Three classes to satisfy requirement (1 in fall and 2 in spring)

http://rwjms.rutgers.edu/gsbs/current/RigorandReproducibilityTraining.html
Recent pre-doctoral fellowship awardees

Yhan Zhao – NIH F99/K00 in August 2017.


Sam Kogan - NJ Commission on Cancer Research Fellowship in March 2017.

Alejandra S. Laureano - NIH F31 entitled in December 2016.

Liping Lou - American Heart Association fellowship in December 2016.


Caroline Pantazis - NIH F31 fellowship in August 2016.

Alexandra Legeza Nguyen - NIH F31 fellowship in July 2016.

Anna Giarratana - NJ Commission on Brain Injury Research Fellowship in June 2016.


Evelyn Okeke - National Science Foundation Graduate Research Fellowship in April 2015.
$45 million in external fellowships and awards in the last 17 years

Help identifying funding sources

Virtual Office on Sakai

Help with application logistics

Feedback, editing, and revising

~17% of current students have external fellowships

Meeting on Sept 11 at 3pm in V10

http://gradfund.rutgers.edu/
Cognitive Skills

http://rwjms.rutgers.edu/education/medical_education/student_support/cognitive.html

Individual Consultation
- Confidential individual consultation regarding learning, time management and job performance.
- Diagnostic evaluation of study practices and their effectiveness.
- Structured intervention to increase learning productivity and efficiency.
- Individual preparation programs for course, board, and licensure examinations.
- Learning disabilities.

Seminars
- Effective study strategies, test taking and time management.
Designed to promote excellence in undergraduate and graduate education at Rutgers through the professional development of the graduate student teaching staff:

- annual orientation
- certificate programs
- special issues seminars
- web-based publications
- discipline-specific training

http://taproject.rutgers.edu/
A teaching K-12 outreach program which allows graduate students and postdocs the opportunity to volunteer in local public schools.

BIO Links volunteers are paired with a science teacher from a local school and make a commitment to visit one class per week for nine weeks.

Contact Dr. Martha Soto; sotomc@rwjms.rutgers.edu
The Graduate Mentoring Fellows Program is a year-long program to allow participants to study the functions involved in serving as a good mentor and to work with undergraduates as a mentor for one academic year.

http://gsnb.rutgers.edu/profdev
Advanced graduate students who join can meet monthly with faculty and administrators to discuss issues related to undergraduate instruction and contemporary higher education.

rastl.rutgers.edu/
Rutgers Pre-doc Leadership Development Institute (PLDI)

Two-year program to prepare for academic and administrative leadership roles in academia.

Students will learn the challenges universities face, and will gain the interpersonal and organizational knowledge, competencies and aspirations to provide effective and ethical leadership in addressing the critical issues confronting higher education.

www.odl.rutgers.edu/pldi/
Advice to a first year from a graduating student

Aditi Dubey’s Graduation Speech
Your career
What Can You Do with a PhD?

- Principal investigator
- Bench Research in Government, Pharma or Biotech
- Teaching-intensive careers in academia
- Science and Health Policy
- Patent Law
- Tech Transfer and Business Development
- Clinical Research
- Regulatory Affairs
- Health and Science Data Analysis
- Business Consulting
- Scientific Writing and Medical Communications
- Medical Affairs
- Non-profit and Foundations
- Finance and Equity Research
- Publishing
- Food safety
- Journalism
- Teaching Education Outreach
NIH Broadening Experiences in Scientific Training (BEST) Awards $2 million for 5 years to create infrastructure

Rutgers

Boston U
UC Davis
UC Irvine
UC San Francisco
U Chicago
U Colorado Denver
Cornell
Emory/Georgia Tech

U Mass Worcester
Michigan State
New York U
U North Carolina
U Rochester
Vanderbilt
Virginia Polytech
Wayne State
Rutgers iJOBS

Interdisciplinary Job Opportunities for Biomedical Scientists

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
Program Leadership

- **Martin Yarmush**
  Distinguished Professor of Biomedical Engineering
  School of Engineering
  *Co-PI*

- **James Millonig**
  Senior Associate Dean
  School of Graduate Studies
  *Co-PI*

- **Janet Alder**
  Assistant Dean for Academic & Student Affairs
  School of Graduate Studies
  *Co-PD*

- **Susan Engelhardt**
  Executive Director
  Center for Innovative Ventures of Emerging Technologies
  *Co-PD*

- **Doreen Badheka**
  Program Director
  School of Graduate Studies
  *Co-PD*
iJOBS Participation

Rutgers Graduate Students
- SGS (New Brunswick/Piscataway/Newark)
- GSN (Newark)
- GSN (Camden)

Rutgers Postdocs
- RWJMS
- NJMS
- SAS New Brunswick
- SPH
- SoE
- SoP
- SEBS
- SAS Newark
- SAS Camden

Free shuttle transportation provided
Phased Programming

SciPhD Leadership and Business Training
Site visits
Networking sessions
Career panels
Case studies
Primers
Workshops
Career fair
Web portal access

Individual development planning & mentorship
Career-specific courses
Professional shadowing/externship

Resume development
Interview preparation
Job placement and tracking

Phase 1 iNQUIRE
Phase 2 iINITIATE
Phase 3 iMPLEMENT
Phase 4 iNSTRUCT

Continued participation
Support and mentoring

Rutgers School of Graduate Studies
Phase 1
SciPhD: Leadership and Business Skills for Scientists

*Provided by Human Workflows, LLC*

*January - February, 2017/35 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
Representative Site Visits

- Commercialization Center for Innovative Technology
- Merck (3)
- Genewiz
- Enterprise Development Center
- Novartis
- NJ Dept. of Health (2)
- Institute for Life Science Entrepreneurship
- Eli Lilly (2)
- Celgene
- Janssen
- Envigo
- Bristol-Myers Squibb
- Regeneron
- Sanofi Aventis
- Covance
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<thead>
<tr>
<th>Representative Career Panels 2015</th>
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<tr>
<td><strong>Pharmaceutical Medical Information</strong></td>
<td>Janssen Bristol-Myers Squibb</td>
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<tr>
<td><strong>Clinical Diagnostics</strong></td>
<td>Janssen</td>
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<tr>
<td><strong>Venture Capital and Consulting</strong></td>
<td>Broadview Ventures</td>
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<tr>
<td><strong>Non-Profit Organizations</strong></td>
<td>Autism Speaks Avon Foundation</td>
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<tr>
<td><strong>Intellectual Property Law</strong></td>
<td>Conley Rose</td>
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<tr>
<td><strong>Science Writing and Journalism</strong></td>
<td>Biogen NPR</td>
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<tr>
<td><strong>Research Positions at the FDA</strong></td>
<td>FDA</td>
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<tr>
<td><strong>Contract Research</strong></td>
<td>Genewiz Huntingdon Life Science</td>
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<tr>
<td><strong>Pharma Medical Education and CRO Clinical Research</strong></td>
<td>Grey Healthcare Group AlcheraBio</td>
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<tr>
<td><strong>Clinical and Regulatory Science</strong></td>
<td>Janssen, Merck</td>
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<tr>
<td><strong>Bench Research in Pharma and Biotech</strong></td>
<td>Celgene, Merck, Enzo</td>
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<tr>
<td><strong>NIH and Government Jobs</strong></td>
<td>NIH</td>
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<tr>
<td>Finance and Equity Research</td>
<td>Bloomberg, Bank of America Cornerstone Macro</td>
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<tr>
<td>Contract Research Organizations</td>
<td>Wuxi Pharma Tech</td>
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<tr>
<td>Identifying and Protecting Emerging Technology – Business Development</td>
<td>Celgene IP Group, Inc.</td>
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<tr>
<td>Science Communications</td>
<td>Ashfield Healthcare</td>
</tr>
<tr>
<td>University-Based, Non-Faculty Positions for PhDs</td>
<td>Rutgers Organizations</td>
</tr>
<tr>
<td>Board Certification: Medical Affairs</td>
<td>Apotheker Group</td>
</tr>
<tr>
<td>Science Policy</td>
<td>AAAS, Society for Neuroscience</td>
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<tr>
<td>Bench research in Pharma</td>
<td>Celgene, Oncobiologics, 3D Biotek, Bristom Myers-Squibb, L’Oreal, Janssen</td>
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<tr>
<td>Data Science</td>
<td>Allergan, Bristol Myers Squibb, Pfizer</td>
</tr>
<tr>
<td>Education and Science Outreach</td>
<td>Middlesex County College, BioBus, Liberty Science Center, Rutgers Science Bus, Students2Science</td>
</tr>
</tbody>
</table>
Representative Workshops: Job Search

- Resume/CV Development for Graduate Students*
- Networking On & Off-Line for Graduate Students*
- Transferrable Skills: Moving Beyond Academia
- Interviewing Skills for Graduate Students*
  How to Prepare for an Informational Interview
- Job Search Using Staffing Agencies
- Finding and Applying for an Internship
- Beyond the PhD: Goal setting and Time Management
  - Fatima Castro
- How to Prepare for Job Fairs and Networking

Offered in partnership with: * Rutgers Career Services  & BioNJ
Representative Workshops: Job Search

- Advice from an Immigration Lawyer for International Students Seeking Employment in the US
- Transferrable PhD Skills
- Business Writing in Science
- How to Break Into Biotech & Science Writing - Oystir
- Tips for Getting and Keeping a Job - Professionalism
- StrengthsFinder * – self assessment of skills
- How to Pick the Right Career for You – Matthias Birk
- How to PhDs Can Put Themselves in a Position of Strength to Apply for Jobs – Cheeky Scientist
Representative Workshops: Practical Skills

Science Storytelling with Rafael Luna – how to tell a story and craft a paper

Communicating Science with Alan Alda - elevator pitch and improv to connect with audience

Biological Data and Python with DataCarpentry - learn programming and how to deal with large datasets

Primer on Good Laboratory Practice (GLP)

Primer on Pharmokinetics and Pharmodynamics
Representative Workshops: Case Studies

- Patent Law Case Study – rewrite patent to demonstrate originality
- Pharma Market Research by Return on Focus – report on whether drug is worth pursuing
- Science Writing – write abstract for lay audience
- Business Consulting Case Study – recommend approach to launch new clinical trial
- Drug Development in Biotechnology – learn pipeline
- Medical Communications – create slide deck for physician
- From Science to Medicine Forum at Regeneron
- How to Test Your Biotech Entrepreneurial Business Idea
### Representative Workshops: Science Policy with Eagleton Institute

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>Communicating Science to Politicians</td>
<td>Paul Offit</td>
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<tr>
<td>How Science Affects Political Decisions</td>
<td>Tom Carew</td>
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<tr>
<td>Advocating for Science</td>
<td>Rush Holt</td>
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<tr>
<td>Scientific Analysis in Policy Making</td>
<td>Stuart Shapiro and</td>
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<td></td>
<td>workshop to present to</td>
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<td></td>
<td>mock senate on GMOs</td>
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<tr>
<td>Politics of Climate Change</td>
<td>Christine Todd Whitman</td>
</tr>
<tr>
<td></td>
<td>with interactive workshop</td>
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<tr>
<td>Implications of Zika Virus on Science Policy</td>
<td>Kathleen Hall Jamieson</td>
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<tr>
<td></td>
<td>and workshop representing</td>
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<td>different constituents</td>
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<tr>
<td>Science in the Transition to the New Administration</td>
<td>AAAS, Rutgers, Princeton</td>
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<td>and workshop on how to</td>
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<td>talk to lobby</td>
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</tbody>
</table>
BioNJ/iJOBS Career Fair
April 2015, 2016 and 2017
42 companies
Phase 2

Phase 2

iINITIATE
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 and Pharma Managed Markets

Drug Development: From Concept to Market

Project Management

Clinical Trials, Adverse Event Reporting, Post-Marketing

Innovation and Entrepreneurship

Accounting and Finance
Professional Shadowing and Mentoring

- Each trainee is matched to a mentor and a shadowing opportunity relevant to their chosen track with industrial, institutional or governmental partners. 72 hours over a whole semester or over 2 weeks.

- Each trainee is assigned a professional mentor and uses the Individual Development Plan (IDP) as a framework for growth.
Professional and Trade Support Abounds

Commercialization Center for Innovative Technologies

npr
Huron Consulting Group
Lifescan
MERCK
BD
Conley Rose
AVON

RESEARCH AMERICA
BASF
The Chemical Company
Daiichi-Sankyo
COLGATE-PALMOLIVE

Forest Research Institute
A Division of Forest Laboratories, Inc.

National Institutes of Health
Turning Discovery Into Health

Lowenstein Sandler

Cymreg Consulting, LLC

Visgo Therapeutics, Inc.

BioNJ

FDA

SIEMENS

HINJ
HealthCare Institute of New Jersey

Columbia University
PRINCETON UNIVERSITY
NYU

MTF
Musculoskeletal Transplant Foundation

Penn State

Bristol-Myers Squibb
Phase 3
iJOBS
University Talent Pipeline on BioNJ

BioNJ University Talent Pipeline

The University Talent Pipeline, a new service provided by BioNJ, looks to connect New Jersey’s life sciences employers with students who may be searching for internships and recent graduates from local colleges and universities who are looking for their first industry job. Many NJ employers in the biotechnology, pharmaceutical, medical device and clinical operations industries are looking for entry level talent with Bachelor’s, Masters or PhD in a life sciences concentration so we created this tool to zero in on exactly that type of talent.

Employers: “Interested in marketing your available career opportunities and internships to students and recent graduates?” Click here to create an account or log in today.

View BioNJ’s Featured University Partners Below:

About iJOBS

The Rutgers University iJOBS Program, funded by the National Institutes of Health, prepares biomedical PhD students and postdocs for a range of non-academic careers so that their job onboarding is more successful. Skills covered in over 40 hr of workshops include communication, teamwork, leadership, finance, and project management. Trainees are also exposed to various career options through panels, site visits, shadowing, and case studies to help them understand how industry operates and can make informed decisions about their career. Click to learn more about iJOBS.

Featured iJOBS Candidates

Profiles of highly-qualified iJOBS trainees who are currently on the job market are provided for your convenience. The Rutgers University iJOBS Program, funded by the National Institutes of Health, prepares biomedical PhD students and postdocs for a range of non-academic careers so that their job onboarding is more successful. Skills covered in over 40 hr of workshops include communication, teamwork, leadership, finance, and project management. Trainees are also exposed to various career options through panels, site visits, shadowing, and case studies so that they understand how industry operates and can make informed decisions about their career. Click to learn more about iJOBS.

Le Zhang
LinkedIn Profile

Frank Rung
LinkedIn Profile

Yaz Haber
LinkedIn Profile

Anandika Chaudhuri
LinkedIn Profile

Eric Haertel
LinkedIn Profile

Lijing Zhou
LinkedIn Profile

Employers: View Featured iJOBS Candidates

iJOBS Candidates: View Relevant Jobs

OPEN POSITIONS

<table>
<thead>
<tr>
<th>Job Title</th>
<th>Company</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Scientist</td>
<td>Celgene</td>
<td>South Orange, NJ</td>
</tr>
<tr>
<td>Manager Supply Chain and DHR - Hospital Products</td>
<td>Mallinckrodt Pharmaceutical</td>
<td>Bedminster, NJ</td>
</tr>
<tr>
<td>Junior Analytical Scientist</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
</tr>
<tr>
<td>Senior Analytical Scientist</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
</tr>
<tr>
<td>Sr. Vice President of Quality</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
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<tr>
<td>Microbiologist</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
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<tr>
<td>Process Engineer</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
</tr>
<tr>
<td>Training Administrator</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
</tr>
<tr>
<td>Science Project Lead</td>
<td>Students 2 Science</td>
<td>Newark, NJ</td>
</tr>
<tr>
<td>Senior Research Scientist</td>
<td>Telgert</td>
<td>Bergenfield, NJ</td>
</tr>
</tbody>
</table>
Job Search Preparation

• One on one mentoring sessions with Oystir/Drop Out Club employees to refine resume and cover letter
• Strategize on job search approach
• Prepare for interviews
Communication Platforms

Email listserve: 1500 members

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

Website: ijobs.rutgers.edu

iJOBS Past Events and Resources

7 September 2016
iJOBS Workshop: Job Search Using Staffing Agencies
Hear from representatives from companies such as Aerotek, Hays and Pretstaff to learn how staffing agencies work and how to best utilize them in your job search at different phases in your career. There will be an opportunity to meet with the representatives after their presentations to get general feedback.

Click here to view the speaker bios for this event.

22 June 2016
iJOBS Career Panel: Identifying and Protecting Emerging Technology/New Business for Pharma
Hear from two Rutgers alumni who now work as a Senior Manager of Global Business Insights and Competitive Intelligence at Celgene and an Associate in Life Sciences for IP Group, Inc. To view the agenda and speaker bios, please click here.

14 June 2016
iJOBS Site Visit: Celgene
Visit the manufacturing site for the cellular therapeutics branch of Celgene. Hear from Greg Fusetti, PhD Vice President of Tech Ops and hear from other Celgene employees. To view the agenda and speaker bios, please click here.
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 notified about 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, 2018. Registration opens Tuesday January 13, 2018 at 12:00 PM.
• If registration is limited, confirmation will be sent to those that are successfully enrolled in the event.
• Applications for Phase 2 are every April.
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>iJOBS Networking Event: Students, Postdocs and Alumni</td>
<td>9/12/17</td>
<td>5-8pm</td>
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<tr>
<td>iJOBS Workshop: PhD Entrepreneurs and NSF I-Corps funding</td>
<td>9/19/17</td>
<td>4:30-6pm</td>
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<tr>
<td>iJOBS Workshop: Applying for Jobs as an International Student,</td>
<td>9/27/17</td>
<td>4:30-6pm</td>
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<tr>
<td>iJOBS Seminar: Regeneron Information Session</td>
<td>9/28/17</td>
<td>4-5:30pm</td>
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<tr>
<td>iJOBS Career Panel: Tech and Sales Support</td>
<td>10/3/17</td>
<td>4:30-6pm</td>
</tr>
<tr>
<td>iJOBS Workshop: Resume, LinkedIn, Networking and Job Interview Preparation</td>
<td>10/10/17</td>
<td>12-1pm</td>
</tr>
<tr>
<td>iJOBS Workshop: How to use Emotional Intelligence</td>
<td>10/18/17</td>
<td>4:30-6:30pm</td>
</tr>
<tr>
<td>iJOBS Career Panel: Industry Jobs in BME and Chemical Biology Research</td>
<td>10/25/17</td>
<td>4-5:30pm</td>
</tr>
<tr>
<td>iJOBS and Eagleton Workshop: Opioid Abuse</td>
<td>10/27/17</td>
<td>9am-1:30pm</td>
</tr>
<tr>
<td>iJOBS Site Visit: Stryker</td>
<td>10/30/17</td>
<td></td>
</tr>
<tr>
<td>What Can You Be With a PhD ?</td>
<td>11/4-5/17</td>
<td>10am-6:30pm</td>
</tr>
<tr>
<td>iJOBS Workshop: Primer in Project Management</td>
<td>11/8/17</td>
<td>4:30-6:30pm</td>
</tr>
<tr>
<td>iJOBS Site Visit: GlaxoSmithKline</td>
<td>11/16/17</td>
<td>9-11:30am</td>
</tr>
<tr>
<td>iJOBS Workshop: Medical Affairs Simulation</td>
<td>11/20/17</td>
<td>4:30-6:30pm</td>
</tr>
<tr>
<td>iJOBS Site Visit: Ferring Pharmaceutical</td>
<td>11/30/17</td>
<td>2:30-5:00pm</td>
</tr>
<tr>
<td>iJOBS Site Visit: Colgate-Palmolive</td>
<td>12/4/17</td>
<td>8:30am-1pm</td>
</tr>
<tr>
<td>iJOBS Workshop: Genomics Data Management</td>
<td>12/5-6/17</td>
<td>9am-5pm</td>
</tr>
</tbody>
</table>
Laboratory Research is #1 Priority

More information: ijobs.rutgers.edu

Email: Millonig@cabm.rutgers.edu janet.alder@rutgers.edu
PhD Student Outcomes

First position after graduate (from exit survey n = 121)
- 68% postdoc (Yale, NYU, Caltech, Rockefeller, Harvard, UC Berkeley, NIH, Columbia)
- 17% research position in pharma/biotech
- 9% research-related career (e.g. consulting, science writing, patent law, non-profit)
- 4% faculty/government position

Current position (from LinkedIn n = 175)
- 41% research in pharma/biotech
- 24% research-related careers (e.g. consulting, science writing, patent law, non-profit)
- 20% current postdocs
- 15% academic faculty positions
Representative Jobs and Internships

Website: your resource for everything

http://rwjms.rutgers.edu/education/gsbs/

Join our groups and also email us your news to post!

Google calendar
- Seminars
- Career development events
- Thesis defenses
- Workshops
- Can link to your calendar

LinkedIn has alumni contacts – important for career development
Have fun!
Where are we?

New Brunswick/Piscataway
Rutgers is less than an hour to NYC and Philadelphia by train

Counseling and Psychiatric Services (CAPS)
Monday-Friday 9am-4pm: 848-932-7884
Evenings and weekends:
1-855-654-6735
School of Graduate Studies

New Brunswick

Princeton

Newark
Feedback

Jim Millonig: millionig@cabm.rutgers.edu

Janet Alder: janet.alder@rutgers.edu
Graduate Student Organizations

- Joint Molecular Biosciences GSA
  ORIENTATION EVENTS
  Game Night: Thur Aug 31 from 5:30-8:30pm, Deans Conference Room, RWJMS
  BBQ: Fri Sept 1 at 1pm, Waksman Courtyard

- NeuroConnections

- Rutgers Association of Toxicology Students

- Biomedical Engineering Student Society

- NJ Seeding Labs – raising funds to help 3rd world countries do research

- iJOBS blog

- Rutgers GSA – events for everyone