RESEARCH PROGRAMS

Mechanisms of Evolution is accepting applications for summer 2016.

https://faculty.unlv.edu/microreu/

Undergraduate projects funded by the REU Site: Mechanisms of Evolution focus on biological processes, such as mutation, genetic drift, migration, non-random mating and natural selection that drive heritable change. The inspiration for this proposal is the celebrated essay; *Nothing in Biology Makes Sense Except in the Light of Evolution* by Theodosius Dobzansky.

Research projects are available in the following disciplines: bioinformatics, field

ecology, systematics, molecular biology and physiology

Stipend: \$5,250

Travel award and double occupancy housing is provided

Application deadline: Friday March 4, 2016

<u>Summer 2016 Undergraduate Research Experience in Physics: Materials and Modeling University of Missouri</u>

Announcement: The University of Missouri (MU) Department of Physics and Astronomy will host a Research Experience for Undergraduates (REU) Program, Materials and Modeling, supported by a grant from the National Science Foundation. MU has a very strong research program in this area, which includes both condensed matter physics and biophysics. The undergraduate student interns will be able to choose from a diverse array of topics depending on their interest and ability. The topics will include experiments, theory, and modeling and span a variety of research projects (see https://physics.missouri.edu/undergrad/reu-projects/) with a good balance between experimental, numerical, and analytical components.

General Information: The Office of Undergraduate Research coordinates a number of summer research programs for undergraduates, including this REU. All programs run for 9 weeks (Wednesday, June 1 - Friday, July 29), with travel days being Tuesday, May 31 and Saturday, July 30. Students selected for these programs live in on-campus, airconditioned housing (double rooms), and receive a meal plan, covered by the program. Summer interns also receive one hour of academic/research credit, travel to and from Columbia, and a stipend of \$4500.

Funds are available for approximately 10 non-MU students. An additional 70+ undergraduates from MU or in other programs will participate in all research and educational programming activities, creating a vibrant community of undergraduate researchers. Students will work on their own research project under the guidance of an MU faculty mentor and present their results at a poster forum at the end of the summer program (July 28). Students become part of a research team that typically includes other undergraduate students, graduate students, lab technicians, and post-doctoral researchers. With 1,000 faculty members, over fifteen academic departments, and eight interdisciplinary programs and centers (all focused on the life sciences), MU is a great place for undergraduates preparing for a challenging career in physics and other sciences research and education. Our Columbia campus includes schools and colleges

of Arts & Science; Agriculture, Food & Natural Resources; Engineering; Health Professions; Medicine; and Veterinary Medicine -- all within walking distance. MU is home to the nation's largest (10MW) nuclear reactor found on a college campus. The MU Research Reactor (MURR) provides advanced research opportunities for students and faculty in the neutron-related sciences and engineering and is an excellent facility for radiochemistry research.

Summer program alumni have entered graduate programs at University of California-Irvine, University of

California-San Diego, University of Chicago, University of Colorado, Indiana University, Iowa State

University, University of Michigan, University of Missouri, Purdue University, University of Virginia,

Washington University in St. Louis, and the University of Wisconsin.

Eligibility: Applicants are expected to have completed at least two years of full-time college enrollment prior to June 2016 (exceptional students who have completed one year may be considered) and be pursuing a major in physics, engineering, biophysics or related fields. Students graduating prior to December 2016 are not eligible. Students must be citizens or permanent residents of the U.S. A minimum GPA of 3.0 (on a 4.00 scale) is required. This includes both a 3.0 or greater for the overall GPA and a 3.0 or greater for science and math courses. Participants must have completed calculus-based physics by the start of the program.

Application Information: The deadline for applying to these programs is Monday, February 15, 2016. Students must complete the application form at https://undergradresearch.missouri.edu/programs-

jobs/programs/Physics%20complete%20info%20and%20app.pdf and provide an unofficial transcript (including fall 2015 grades); at least one letter of recommendation (two preferred); a personal statement including career plans, prior research experience (if any), and statement of research interests; and a resume. Completed application packets should be sent to Office of Undergraduate Research. 150 Christopher S. Bond Life Sciences Center, University of Missouri, Columbia, MO 65211. FAX: 573-884-9395. General questions can be directed to Assistant Director Michael Cohen (CohenME@missouri.edu, 573-882-4818). Questions about physics projects or faculty can be directed to Dr. Karen King (KingKar@missouri.edu) Please include an unofficial transcript, personal statement, resume, and at least one letter of recommendation from a science faculty member (someone who has taught you or with whom you have worked). Two letters of recommendation are preferred. Although the Office of Undergraduate Research prefers letters be sent with the completed application, we will accept letters of recommendation sent directly to our office. A resume is very helpful. If you handwrite your application, please PRINT CLEARLY.

Please return your application to Office of Undergraduate Research, 150 Bond Life Sciences Center, University of Missouri, Columbia, MO 65211. (Fax: 573-884-9395 or email: ugr@missouri.edu)

The deadline is Monday, February 15, 2016.	
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Physics and Astronomy REU Program

In summer 2016, Texas A&M University-Commerce will offer again the NSF funded

Physics and Astronomy REU program specifically designed for students from 2-year colleges around the country. Students will be paid \$5,000 salary, travel and free housing on our campus for 10 weeks from June 6 to August 12.

AMGEN SCHOLARS PROGRAM at Caltech

Caltech's Amgen Scholars Program is geared towards students in biology, chemistry, and biotechnology fields. Some of these fields include biology, biochemistry, bioengineering, chemical and biomolecular engineering, and chemistry.

Eligibility: Students must be current sophomores through non-graduating seniors, must be attending a four-year university in the US, and must be U.S. citizens or U.S. permanent residents. A minimum GPA of 3.2 is required.

Support: Amgen Scholars will receive a \$6000 award, round-trip air transportation, campus housing, and a food allowance.

Application: Online applications are due February 15, 2016.

For more information, please visit

www.sfp.caltech.edu/programs/amgen_scholars.

<u>Student, Alumni and Faculty Research Opportunities at Oak Ridge National Laboratory</u> (ORNL) – Oak Ridge, TN

Opportunities for qualified students and faculty to participate in hands-on research in a real-world setting with award-winning scientists

Higher Education Research Experiences (HERE)

Undergraduates, Post-BS and AAS, MS, and PhD – all majors Stipend based on academic status Travel/Housing assistance (if eligible) Full-time and part-time appointments Professional development activities Minimum GPA - 2.5/4.0

U.S. Citizen or Legal Permanent Resident (LPR)

Minimum GPA - 3.0/4.0

Nuclear Engineering Science Laboratory Synthesis Programs (NESLS)

Undergraduates, MS, PhD, and Post-MS or Postdoctoral – Majors related to Nuclear Science and Nuclear Policy; Engineering; Physics; Nuclear Medicine Stipend based on academic status Travel/Housing assistance (if eligible) Full-time and part-time appointments Professional development activities

Open to U.S. and International Citizenship ***Visit http://www.orau.org/ornl or contact ORNL Education Programs at ornledu@orau.org for more information!***

RUTGERS, The State University of New Jersey, invites talented students to apply for our highly successful SUMMER RESEARCH PROGRAM, RISE (Research in Science and Engineering). Please forward to undergraduates who have strong academic credentials, passion for research, and interest in graduate study. They will benefit from:

- ** CUTTING EDGE <u>RESEARCH</u> in the biological, physical & social/behavioral sciences, math, and engineering. In the <u>BIOMEDICAL SCIENCES</u>, students can choose from among 200 labs, including the Robert Wood Johnson Medical School and the Cancer Institute of New Jersey.
- ** PARTNERSHIPS with <u>REU programs</u>: Cellular Bioengineering, Pharmaceutical Sciences, Pharmaceutical Engineering, Physics & Astronomy, and Advanced Materials. By applying to RiSE, students can opt to be automatically considered for partner REUs.
- ** PERSONALIZED MENTOR-MATCHING
- ** OUTSTANDING PROFESSIONAL DEVELOPMENT: scientific speaking & writing, GRE prep, grad school workshops, career exploration, field trips
- ** EXCELLENT FUNDING: Generous stipend + housing + travel
- ** ALUMNI SUCCESS: Awards at national meetings & placement at top graduate schools. Exciting new SUPER Grad (SUmmer Pipeline to Excellence at Rutgers)

 Graduate Fellowship program awards prestigious graduate fellowships to outstanding RiSE alumni.
- ** GREAT LOCATION: professional & recreational advantages.
- ** FUN & FRIENDSHIPS: Vibrant multi-cultural community & social program.

 Students should apply now. Rolling admissions is in progress and is highly selective.

 Questions? rise@rci.rutgers.edu or 732.848.6584.

Undergraduate students with an interest in biochemistry, biophysics, structural biology and other fundamental biomedical research are encouraged to apply to the University of Pittsburgh School of Medicine's 2016 Summer Undergraduate Research Program (SURP).

Undergraduate students get to do research in one of several research programs, including among various others Molecular Biophysics/Structural Biology, Molecular Genetics/Developmental Biology, and Molecular Pharmacology. This exciting program is specifically designed for students that are considering to pursue graduate school in one of the biomedical sciences. Participants get a stimulating personal experience with scientific (biomedical) research. The research program takes place in Pittsburgh, Pennsylvania, and lasts for ten weeks, from May 23 to July 29, 2016. For more specifics regarding the program and the types of research involved, please visit the SURP website: http://www.gradbiomed.pitt.edu/node/268

==>> The final deadline for applications is March 1st, 2016. <<== (For those with a specific interest in biophysics and/or structural biology: http://www.mbsb.pitt.edu/index.php/training/undergraduate-research)

The MSU College of Osteopathic Medicine is offering summer education and research training to outstanding undergraduate students, who are interested in combined DO-PhD training for a career as a physician-scientist are offered an opportunity to conduct research and to be exposed to the excitement of an academic medical environment. The MSUCOM Summer Undergraduate Education and Research Program is a 10 week program that begins May 31, 2016 and will conclude August 5, 2016. Up to six awards will be given to qualified undergraduate applicants each year. The program includes both clinical & laboratory experiences. Students will work in a research laboratory under the guidance of selected faculty members in the biomedical sciences, shadow physician-scientists in a clinical setting, attend seminars emphasizing the intersection of science and medicine, and participate in career development workshops. Students will work with faculty on an individual basis and as part of a research team. Research teams will include graduate students, post docs, research scientists, and current DO-PhD students.

Students will be matched based on their interests to a research faculty mentor/laboratory at Michigan State University. The student will work in the laboratory 10 weeks.

All students will be required to make a full-time commitment (at least 40 hours per week) to their research. Students will be required to make a presentation to their fellow SUPER participants, faculty mentors, and others at the end of the program. Students can expect to have "hands on" experience and learn the basic skills necessary to contribute to a research effort; a sample of the techniques a student might learn includes: maintaining cell cultures, electrophoresis, chromatography, immunoassays, animal surgery, electrophysiology and neurochemical assays, and protein and nucleic acid molecular biology.

Students will receive exposure to the practice of medicine by individual physician mentors; this experience will average 2-10 weeks.

Students will participate in several workshops (1) how to apply to MSUCOM medical school and MSU graduate programs (2) information on how to complete their AACOMAS (American Association of Colleges of Osteopathic Medicine application service) application (3) how to succeed in medical school or graduate school. Students will also attend weekly research seminars.

A "Certificate of Merit" will be awarded to all participants upon completion of the program.

Each SUPER undergraduate participant will receive \$2,500 for the 10-week, full-time research experience. Accommodations in University Housing will be provided for any student outside of the greater Lansing, East Lansing area. In order to participate in the clinical portion of the program (shadowing in

physicians' clinics) students are required to have their own vehicle for transportation off campus.

Eligibility: Applications are invited from undergraduate students who are currently in their junior year, have a GPA of 3.5 or higher, and have a minimum of one full semester of research experience. Students who have a GPA of less than 3.5 but have extensive research experience are also encouraged to apply. Applicants should be involved in research and be interested in graduate and medical education in biomedical sciences leading to a DO-PhD. Eligible students must be US citizens or permanent residents who anticipate graduating with a bachelor's degree in the biological or physical sciences in the academic year following the summer of planned participation. Graduating seniors are not eligible.

Selection: Selection of students is based on the completed application that asks for a description of academic interests, career goals, and research experiences. Students must state specific scientific interests and any particular research areas or techniques they wish to explore in order to be matched with research faculty. Also required are two letters of recommendation (from faculty and/or from an advisor) and an unofficial transcript from the student's undergraduate institution(s). Minority students are encouraged to apply. Deadline for receipt of all materials in our office is March 31, 2016. Decisions will be made and students notified by April 30, 2016.

The Department of Molecular & Integrative Physiology at the University of Michigan is pleased to offer summer fellowship programs to support undergraduate students that are interested in research in physiology and/or biomedical sciences. Any student who is currently enrolled at any degree-granting University or College is invited to apply, with preference given to those students interested in a career in research. In general:

- 1) Biological science students will join our traditional Summer Undergraduate Research Fellowship (SURF): https://sites.google.com/a/umich.edu/surf/home
- 2) Students from quantitative science majors (e.g. engineering, math, computer science) will join our Short Term Educational Program (STEP) towards Digestive and Metabolic Physiology: MailScanner has detected a possible fraud attempt from "sitemaker.umich.edu" claiming to be https://sites.google.com/a/umich.edu/step/home
- 3) Underrepresented groups and those from economically disadvantaged backgrounds will join out Summer Undergraduate Research In Physiology (SURP) program: MailScanner has detected a possible fraud attempt from "sitemaker.umich.edu" claiming to be https://sites.google.com/a/umich.edu/surp/home Each student will be matched, based on his or her interests, to a laboratory that is led by a faculty member of the Department of Molecular & Integrative Physiology or of the University of Michigan Medical School. The selected laboratories are involved in nationally recognized research, in topics such as hormones and signal transduction, obesity and diabetes, reproduction and circadian rhythms including sleep, gastrointestinal physiology including digestive diseases, and many aspects of cardiovascular disease.

There will be a lecture series, a research forum at the end of the summer in which

fellows will present their work, and opportunities to attend research seminars throughout the summer.

Further details and application materials are available from the fellowship website: http://medicine.umich.edu/dept/molecular-integrative-physiology/education/undergraduate-opportunities
The deadline for applications is February 15, 2015.

INTERNSHIPS

Interested in community service and leadership? Want to get more involved in your community? Looking to develop your communication, teamwork, problem-solving, and community-building skills?

If any of these questions describe you, the Community Relations Coalition (CRC) and Michigan State University (MSU) invite your application for the 2016-2017 CRC Internship. The two-semester, paid CRC Internship is a valuable opportunity to develop marketable skills while building community in the East Lansing neighborhoods surrounding campus. For the full position description, eligibility requirements, and to apply online, please visit http://tinyurl.com/CRC1617.

Applications are being accepted until March 28, 2016. If you have any questions about the internship, please feel free to contact Leslie Armell, CRC Intern Coordinator, at armellle@msu.edu.

We look forward to hearing from you about the CRC Internship program!

Internship: Multiple Summer Internships

Employer: American Heart Association

Students with an interest in public health, advocacy, or working for a non-profit should check out this unique program. Internships are available in science operations, quality improvement, health information technology, advocacy, and more. Locations all across the country are available. To learn more and apply online, <u>visit the AHA website</u> "careers" page.

Internship: Public Health Internship Program

Employer: Kenty County Health Dept (Grand Rapids, Michigan)

Students interested on public health should definitely check out this neat opportunity! Students chosen for this internship program gain real-world experience working side-by-side with local public health professionals in Grand Rapids, MI. The application period for spring/summer semester is March 15 - April 15, 2016. To learn more and apply online, visit the website HERE.

Internship: Environmental Education Internship

Employer: Fenner Nature Center (Lansing, MI)

Students with a passion for the environment and educating others should definitely check out the environmental education internships at Fenner Nature Center, the premier nature center in the Lansing region. To learn more and apply online, <u>log into MySpartanCareer</u> and search for Job ID #: 154679. <u>The application deadline is March 31, 2016</u>.

Internship: Rehabilitation Aide

Employer: Hope Network (Lansing, MI)

Students interested in health care or rehabilitation services should consider this neat opportunity at Hope Network. To learn more and apply online, <u>log into</u>

<u>MySpartanCareer</u> and search for Job ID #: 156614. <u>The application deadline is March</u> 25, 2016.

Internship: On-Site Veterinary Internship

Employer: Haslett Animal Hospital (Haslett, MI)

If you are interested in gaining invaluable veterinary experience, working with four amazing full-time veterinarians, and FREE RENT & UTILITIES (apartment above the vet clinic), then you should consider applying to be one of the newest vet interns at the Haslett Animal Hospital. If you're interested, you can send your resume to Nathan Harris, via e-mail: info@haslettanimalhospital.net. In your application, be sure to include: anticipated number of academic credits for upcoming fall semester 2016, when you plan to apply to vet school, hobbies, other commitments (jobs, clubs, sports, etc.), one strength, one weakness, and one question you have about the position.

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Office of Science/Office of Workforce Development for Teachers and Scientists 2016
Summer Term internship/fellowship programs

- The Science Undergraduate Laboratory Internship (SULI) program encourages
 undergraduate students (including community college students) to pursue
 science, technology, engineering, and mathematics (STEM) careers by providing
 research experiences, under the guidance of laboratory/facility staff scientists or
 engineers, on projects supporting the DOE mission. More information about
 SULI and access to the online application is at
 http://science.energy.gov/wdts/suli/
- The Community College Internship (CCI) program encourages community college students to enter technical careers relevant to the DOE mission by providing technical training experiences at the DOE Labs. Students work on technologies or instrumentation projects or major research facilities related to

- ongoing R&D programs. More information about CCI and access to the online application is at http://science.energy.gov/wdts/cci/.
- The Visiting Faculty Program (VFP) seeks to increase the research competitiveness of faculty members (including community college faculty) and their students at institutions historically underrepresented in the research community in order to expand the workforce vital to the DOE mission areas. In this program, selected university/college faculty members collaborate with DOE laboratory research staff on a research project of mutual interest. Faculty member participants may invite up to two students (one of which may be a graduate student) to participate in the research project. Applicants establish their collaborations with laboratory research staff in advance of applying and must submit a co-developed research proposal as part of the application. Students apply separately at the invitation of the faculty member. More information about the VFP and access to the online application is at http://science.energy.gov/wdts/vfp/.

-Internship: Student Health Care Assistant Employer: MSU Radiology (MSU's campus)

Here's a neat opportunity for students to get exposure to a health care setting on MSU's campus. To learn more and apply, visit your MySpartanCareer account and search for Job ID #: 147754.

Internship: Care Provider

Employer: Royal Care Link (East Lansing, MI)

This is a great opportunity for students interested in physical therapy, occupational therapy, or other health-care related professionals. Candidates are matched to a home to provide care for patients in-home. To learn more and apply online, visit MySpartanCareer and search for Job ID #: 147838.

Internship: Vocational Rehabilitation Intern

Employer: Peckham, Inc.

This is a great opportunity for pre-professional students looking for an internship in a health-related field. To learn more and apply, visit your MySpartanCareer account and

search for Job ID #: 145202.

Internship: Multiple Internships

Employer: Fenner Nature Center (Lansing)

The Fenner Nature Center is a premier nature center in the Lansing region, and

regularly hires students for part-time internships in a variety of fields, including animal care, marketing, education & outreach, and more. To learn more and apply online, visit your MySpartanCareer account and search for "Fenner Nature Center" under Employers.

Internship: Fitness Intern

Employer: I.Q. Fit, Fitness, Wellness Center (Lansing)

Here's a really dynamic local opportunity for students interested in physiology, fitness, wellness, etc. To learn more and apply online, visit your MySpartanCareer account and

search for Job ID #: 143357.

Internship: Multiple Internships

Employer: Michigan Environmental Council

Students interested in gaining exposure to environmental policy are encouraged to apply for a local internship with this local organization. To learn more and apply online, visit your MySpartanCareer account and search for "Michigan Environmental Council"

under Employers.

Internship: Behavioral Aide

Employer: CBI Rehabilitation Services (Lansing)

This is a great opportunity for pre-professional students interested in getting more exposure to and experience in patient rehabilitation services. To learn more and apply online, visit your MySpartanCareer account and search for Job ID #: 143732.

Internship: Strategic Support Associate Employer: Jackson National (Lansing, MI)

Jackson National, a dynamic company with headquarters in the Lansing region, is seeking freshmen and sophomores to work at their "Zone" location (downtown East Lansing) as part of their Strategic Support Associate program. This is a part-time job opportunity with very flexible hours and competitive pay. Great opportunity to learn about financial services industry and internships at Jackson! To learn more and apply online, visit the Jackson website and search for the "Regular Strategic Support Associate" position.

Internship: Multiple Internships (Actuarial, IT, Web Development, Technical Services, etc.)

Employer: Jackson National (Lansing, MI)

Jackson National, a dynamic company with headquarters in the Lansing region, is seeking talented students interested in internships in variety of technical fields, including actuarial science, IT, software/web development, business analyst, and more. To learn more and apply online, visit the <u>Jackson website</u> or your <u>MySpartanCareer</u> account and search for "Jackson National Life Insurance" under the "Employers" tab.

POSITION TITLE: Summer Intern

EMPLOYER: MSU BioEconomy Institute Organic Energy Storage Laboratory

JOB ID: 148707

Located in Holland, MI this position will have you join a team of students conducting research in Chemistry fields such as organic synthesis, analytical chemistry, electrochemistry and spectroscopy.

POSITION TITLE: Horticulture Intern

EMPLOYER: American Horticultural Society

JOB ID: 128720

This position in Alexandriav, Virginia will give you a chance to complete an individualized garden-based project as well as help with garden maintenance, visitor and member services, interpretative programs, integrated pest management, seasonal exhibits and displays, and plant identification.

POSITION TITLE: Huntington's Summer Internship Program

EMPLOYER: Huntington National Bank

JOB ID: 148606

This position is aimed towards students in Computer Science and Statistics. At Huntington you will be gaining experience in the IT sector of the company.

Internship: College Internship Program

Employer: Disney Company

Students interested in the internship opportunity of a lifetime should check out the Disney College Program! Internships are available in Florida and California. To learn more and apply, visit the <u>Disney College Program website</u>.

VOLUNTEER OPPORTUNITIES

SUSTAINABLE CLIMATE ENVIRONMENT ADVOCATE LANSING, MI

The Citizens' Climate Lobby welcomes volunteers to help advocate for sustainability in Michigan. On average you will spend 4-6 hours a month meeting with Congressional leaders, and local media as well as educating others, to help slow the effects of climate change.

EMPLOYMENT OPPORTUNITIES

The MSU Forest Entomology Lab is looking for undergraduate research assistants to work during the 2016 field summer field season (May to mid-August). Successful applicants will participate in a variety of research projects that focus on beech bark disease (BBD), emerald ash borer (EAB) and other exotic forest pests. This is a great summer employment opportunity for anyone with an interest in Michigan's natural resources. Applicants selected for these positions will perform a variety of duties in the laboratory

on campus and at field sites throughout Michigan. Laboratory activities will include working with technicians and scientists to rear EAB, conduct bioassays with adult beetles and collect and process trap samples. Activities at field sites may include checking insect traps, assisting with forest inventories, and maintaining young ash trees in a plantation and greenhouse. Additional duties will include general lab maintenance and data entry.

Previous experience is not required. Anyone enthusiastic about the outdoors is encouraged to apply. Applicants will need to have a valid driver's license, a clean driving record and must be able to work well with others and independently.

Please send an email including your résumé and a short explanation of why you are the right person for this job to tanissar@msu.edu. We look forward to hearing from you!

Blue Lake Fine Arts Camp is a non-profit summer school of the arts serving more than 5,400 gifted elementary, junior high and high school students each season. Now in our 50th year of operation, Blue Lake offers more than 200 staff positions to motivated college students.

We are currently in the process of hiring staff for our 2016 season (June 19 – August 21) and are searching for enthusiastic and talented college students to fill positions. We are currently seeking exceptional Science Education applicants.

Blue Lake is looking for advanced Science Education majors interested in teaching an outdoor exploratory class to students, grades 5 – 12. Staff members who lead this class have the unique opportunity to gain resume building experience in their field of study, help sculpt the weekly curriculum, and hone classroom management skills. Staff members also have a wide range of other opportunities as a part of their work. Blue Lake offers college students incredible experience in leadership and working with youth!

I would appreciate your help with passing the word to your students about Blue Lake and the positions available for Science Education majors. More information is available at: www.bluelake.org/employment, or 1-800-221-3796. Thank you for your assistance.

POSITION TITLE: Quality Manager EMPLOYER: Arbre Farms Corp

JOB ID: 148705

This position is looking for someone to manage the development and assurance of the company's quality systems and procedures.

POSITION TITLE: Mathematical Modeler

EMPLOYER: Immunetrics, Inc.

JOB ID: 148533

Immunertrics, Inc. is looking for a recent grad or current senior to help shape the future of health care and medicine through biosimulation technologies.