

GSTP

Genomic Sciences Training Program Postdoctoral Traineeships

General Information

The GSTP postdoctoral traineeships are open to trainees who will work with GSTP trainers as mentors (see attached list). The postdoctoral traineeships, awarded for a one- or two-year period – with the second year dependent on the renewal of the NHGRI grant funding GSTP - must take place at UW-Madison. In addition, the postdoctoral trainees must be U.S. citizens or hold permanent resident status.

Applications should be emailed to lpape@wisc.edu or delivered or sent by Friday, March 22nd, 2013:

Genomic Sciences Training Program (GSTP)
Room 3445 Genetics/Biotechnology Center (new addition)
425 Henry Mall
UW-Madison
Madison, WI 53706

Application Checklist

- Complete the application form with printed text (not handwritten text).
- You should select both a primary and secondary mentor (primary trainer from Category A, B or C and the secondary trainer from a different category—see GSTP trainer list at the end of this application). The primary mentor must submit a letter of recommendation.
- Include a complete Curriculum Vitae.
- Include your Undergraduate and Graduate Transcripts (copies); GRE scores, and Proof of Citizenship (a copy of your birth certificate, passport, driver's license, or social security card).
- Letters of recommendation are required from your Ph.D. (or M.D.) advisor and from two other appropriate sources. Please have these sent directly to the GSTP office or emailed to lpape@wisc.edu.
- Include 7 copies of the entire application, not including the letters of recommendation. (If you email the application, we will make copies for you.)

Application Form, GSTP Postdoctoral Traineeship

1. Personal Information and Proposed Postdoctoral Research Advisors and Title

Full Name:

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Last First Middle

Gender (optional): Male Female

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Birthdate (mm/dd/yyyy) Birthplace SSN (###-##-####)

Proposed GSTP Postdoctoral Advisor:

Proposed GSTP Secondary Advisor:

Title of Proposed Research Project:

Permanent Address

Address Line #1:

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City:

	State:		
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Zip Code:

	County:		
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Current Address

Current Until:

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(mm/dd/yyyy)

Address Line #1:

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Address Line #2:

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City:

	State:		
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Zip Code:

	County:		
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Phone Number:

	Fax Number:		
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Email Address:

	URL (www):		
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Citizenship:

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 Visa Type:

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 Visa No.:

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Status: Foreign National Non-Resident Alien

Racial/Ethnic Heritage (optional):

- American Indian or Alaskan Native – Persons who have origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
- Asian or Pacific Islander – Persons having origins in any of the original people of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, Japan, Korea, the Philippine Islands, and Samoa.
- Black (not of Hispanic origin) – Persons who have origins in any of the Black racial groups of Africa.
- Hispanic – Persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.
- White (not of Hispanic origin) – Persons who have origins in any of the original peoples of Europe, North Africa, or the Middle East.

Disability (optional): Yes No

For the purposes of the GSTP Training Program, a person with a disability is defined as any person who has a physical or mental impairment, which substantially limits one or more major life activities, has a record of such an impairment, or is regarded as having such an impairment.

2. *Education and Professional Information*

Education:

	Previous Institution, and Location	Degree, and Field of Study	Year	GPA
1 st				
2 nd				
3 rd				

e.g. 1st degree- B.A. Math, 2nd degree- M.S. Biology, 3rd degree – Ph.D. Chemistry

Thesis:

Title:

Advisor: Department/Institution:

Thesis Abstract (please no more than 200 words) :

Graduate Record Exam (GRE):

	Raw Score	Percentile	
Verbal:			Subject Name
Quantitative:			
Analytical:			
Subject:			
Subject:			

Test of English as a Foreign Language (TOEFL):

Raw Score	Percentile
<input type="text"/>	<input type="text"/>

3. *GSTP Postdoctoral Traineeship*

Desired Start Date (mm/dd/yyyy):

Primary Mentor/Department:

Secondary Mentor/Department:

Proposed Research Area(s) – written by the postdoctoral nominee, including title (suggested length, 2-5 pages). Insert below, together with any additional pages.

4. *Publications:*

A large, empty rectangular box with a thin black border, intended for listing publications. The box occupies most of the page below the section header.

5. *Funding:*

The salary levels for Fiscal Year 2012 are available at grants.nih.gov/grants/guide/notice-files/NOT-OD-12-033.html. NIH specifies that no individual trainee may receive more than 3 years of aggregate NRSA support at the postdoctoral level (this includes any combination of support from institutional training grants and individual fellowship awards). Any supplement to postdoctoral salaries is required to come from non-federal sources.

- I. Total postdoctoral salary:

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- II. NRSA postdoctoral stipend level:

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- III. Total salary level difference:

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If your total salary (I) will be above the NRSA postdoctoral stipend level (II), please explain what sources will fund the salary supplements to compensate for the salary level difference (III).

Supplementation explanation:

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6. *Curriculum Vitae*

Include your complete *Curriculum Vitae*

7. *Transcripts; GRE scores; Proof of Citizenship*

Include your Undergraduate and Graduate Transcripts (copies); GRE scores, and Proof of Citizenship (a copy of your birth certificate, passport, driver's license, or social security card).

(Last updated 2-5-12)

GSTP Faculty Name	Primary Department	Research Interests	Category
Ansari, Aseem	Biochemistry	Studying the regulation of gene expression at the interface of chemistry biology and genomics, dissecting genome-wide transcriptional cascades. http://www.biochem.wisc.edu/ansari/	B (Biological)
Asimakopoulous, Fotis	Medicine	Genomic approaches to characterize multiple myeloma http://www.cmp.wisc.edu/faculty/bio.php?name=fasimakopoulos	B (Biological)
Attie, Alan	Biochemistry	Molecular genetics of diabetes & insulin resistance; cell biology of lipoprotein assembly and cholesterol trafficking. http://www.biochem.wisc.edu/attie/attie/	B (Biological)
Beebe, David	Biomedical Engineering	Design, fabrication, and testing of novel micro fabrication techniques; microdevices and microsystems designed to facilitate advances in biology. http://www.engr.wisc.edu/bme/faculty/beebe_david.html	A (Physical)
Bresnick, Emery	Cell & Regenerative Biology	Multidisciplinary approaches to understand stem/progenitor cell function, blood cell development, and vascular biology http://www.crb.wisc.edu/faculty/bresnick.asp	B (Biological)
Broman, Karl	Biostatistics & Medical Informatics	Statistical problems in genetics, genomics and molecular biology. Development of improved methods for detecting and identifying genes contributing to variation in complex traits. http://www.biostat.wisc.edu/%7Ekbroman/	B (Biological)
Burkhard, Mark	Medicine; Hematology; Oncology	Identification of genetic alterations in cancer cells; cancer genomics; targeted treatment strategies for breast cancer. http://www2.medicine.wisc.edu/home/faculty-spotlight/mark-burkard-md-phd	B (Biological)
Coen, Michael	Biostatistics & Medical Informatics	Translational machine learning applied to medical datasets; applying machine learning to genomic analyses http://www.biostat.wisc.edu/People/faculty/coen.htm	C (Computational / Statistical)
Coon, Joshua	Chemistry	Development and application of new technologies and instrumentation for automated, large-scale whole protein characterization http://www.chem.wisc.edu/people/profiles/Coon.php	A (Physical)
Craven, Mark	Biostatistics and Medical Informatics	Machine learning for bioinformatics and information extraction; learning comprehensive models. http://www.medsch.wisc.edu/biostat/faculty/craven.html	C (Computational / Statistical)
Culbertson, Michael	Genetics	Mechanisms of synthesis, decay, and function of RNA using the yeast <i>Saccharomyces cerevisiae</i> as a model system. http://www.genetics.wisc.edu/faculty/culbertson.html	B (Biological)
de Pablo, Juan	Chemical & Biological Engineering	Investigating thermophysical properties of fluids and solids at a molecular level and using molecular-thermodynamic models. http://www.engr.wisc.edu/che/faculty/depablo_juan.html	A (Physical)
Dewey, Colin	Biostatistics and Medical Informatics	Algorithms for problems in comparative genomics http://www.biostat.wisc.edu/~cdewey/	C (Computational / Statistical)
Donohue, Timothy	Bacteriology	Studying synthesis and activity of proteins that function in critical energy	B (Biological)

generating pathways in *Rhodobacter sphaeroides*.

<http://www.bact.wisc.edu/GradStudies/DonohueTimothy.html>

Dyer, Charles	Computer Sciences	Developing basic tools for controlling in real-time, either autonomously or interactively, a virtual camera of a real environment. http://www.cs.wisc.edu/~dyer/	C (Computational / Statistical)
Fox, Catherine	Biomolecular Chemistry	Genomic and computational analyses of chromosome replication in eukaryotes http://www.bmolchem.wisc.edu/faculty/fox.html	B (Biological)
Gasch, Audrey	Genetics	The genomics of yeast responses to environmental stress and starvation http://gasch.genetics.wisc.edu/	B (Biological)
Gould, Michael	Oncology	Molecular genetics of mammary carcinogenesis and translation research in the area of breast cancer prevention and therapy. http://mcardle.oncology.wisc.edu/faculty_staff/gould_m.html	B (Biological)
Hittinger, Chris	Genetics	Diversity and evolution of yeast carbon metabolism networks. http://www.genetics.wisc.edu/user/329	B (Biological)
Hull, Christina	Biomolecular Chemistry	Molecular biology of human fungal pathogens. http://www.bmolchem.wisc.edu/faculty/hull.html	B (Biological)
Kendziorski, Christina	Biostatistics and Medical Informatics	Development of statistical methods and software for the analysis of data from high-throughput genomics projects, with particular interest in methods for identifying the genomic mechanisms underlying complex traits. http://www.medsch.wisc.edu/biostat/faculty/kendziorski.html	C (Computational / Statistic)
Kreeger, Pamela	Biomedical Engineering	Systems biology, ovarian cancer, endocrine signalling http://www.wisc.edu/search/?q=pamela+kreeger	A (Physical)
Krysan, Patrick	Horticulture	Signal transduction in <i>Arabidopsis thaliana</i> with a focus on MAP kinase signaling pathways. Functional genomics using <i>A. thaliana</i> . http://www.hort.wisc.edu/faculty/Krysan/default.htm	B (Biological)
Loewe, Laurence	Genetics	Evolutionary systems biology, evolutionary genetics, species extinction, antibiotics resistance evolution, population genetics, systems biology, simulation, parameter estimation, distributed computing http://www.evolutionary-research.net/people/loewe	B (Biological)
Markley, John	Biochemistry	NMR spectroscopy and its biological applications; structure function relationships in proteins; and stable-isotope assisted multinuclear NMR. http://www.biochem.wisc.edu/markley/	A (Physical)
Newton, Michael	Biostatistics and Medical Informatics	Developing statistical methods to address problems with the comparison of expression arrays. http://www.biostat.wisc.edu/faculty/newton.html	C (Computational / Statistical)
Page, C. David	Biostatistics and Medical Informatics	Data mining and machine learning, with applications to bioinformatics, chemoinformatics, and health sciences; inductive learning programming. http://www.biostat.wisc.edu/faculty/page.html	C (Computational / Statistical)

Pagliarini, David	Biochemistry	Investigation of the biochemical underpinnings of mitochondrial dysfunction in human diseases. http://www.pagliarinilab.org/	B (Biological)
Palecek, Sean	Chemical & Biological Engineering	Cellular engineering, intracellular signal transduction, cell and protein biosensors www.engr.wisc.edu/che/faculty/palecek_sean.html	A (Physical)
Palmenberg, Ann	Biochemistry	Molecular biology of RNA picornaviruses, protein translation, proteolytic processing, RNA synthesis, viral pathogenesis and vaccines. http://www.biochem.wisc.edu/palmenberg/	B (Biological)
Payseur, Bret	Genetics	Population genetic processes that determine patterns and levels of variation throughout the genome, including natural selection, recombination and mutations. http://www.genetics.wisc.edu/faculty/profile.php?id=471	B (Biological)
Perna, Nicole	Genetics	Development and application of computational and experimental tools to study the evolution of bacterial genomes. http://www.genetics.wisc.edu/faculty/profile.php?id=520	B (Biological)
Pfleger, Brian	Chemical & Biological Engineering	Synthetic biology, metabolic engineering, biotechnology, protein engineering, natural products http://www.engr.wisc.edu/che/faculty/pfleger_brian.html	A (Physical)
Pool, John	Genetics	New inference methods for population genomic sequence data; genetic basis of parallel melanin evolution in <i>Drosophila</i> . http://www.johnpool.net/research.html	B (Biological)
Ramanathan, Parmesh	Electrical & Computer Engineering	Characterization of the temporal dynamics of networks of gene interactions; longer-term goal, creation of a virtual foundry for genomic circuits http://www.engr.wisc.edu/ece/faculty/ramanathan_parameswaran.html	A (Physical)
Reed, Jennifer	Chemical & Biological Engineering	Systems biology, metabolic model development and analysis, metabolic engineering, biofuels, bioremediation, and biotechnology. http://www.engr.wisc.edu/che/faculty/reed_jennifer.html	A (Physical)
Roy, Sushmita	Biostatistics & Medical Informatics	Inference of structure and function of regulatory networks; Comparative analysis of expression modules across species http://pages.discovery.wisc.edu/~sroy/	C (Computational / Statistical)
Schwartz, David C. <i>GSTP Program Director</i>	Chemistry / Genetics	Chemistry and biology of single molecule systems with applications to genomic sciences. http://www.lmcg.wisc.edu/	A (Physical) and B (Biological)
Shavlik, Jude	Computer Sciences	Machine learning and datamining applied to biomedical tasks such as microarray ("gene chip") analysis and design, protein-structure determination, and information extraction from on-line biomedical text. http://www.cs.wisc.edu/~shavlik/	C (Computational / Statistical)
Shusta, Eric	Chemical & Biological Engineering	Development of an in vitro model of the Blood Brain Barrier (BBB); analysis of membrane proteome of the BBB	A (Physical)

		http://www.engr.wisc.edu/che/faculty/shusta_eric.html	
Skop, Ahna	Genetics	Cytokinesis and cell cycle proteomics. http://www.genetics.wisc.edu/faculty/profile.php?id=160	B (Biological)
Smith, Lloyd	Chemistry	Development and application of novel methods and approaches for the analysis and manipulation of biomolecules. http://www.chem.wisc.edu/main/people/faculty/smith.html	A (Physical)
Sussman, Michael	Biochemistry	Signal transduction in eukaryotes, development of genomic technologies, plasma membrane receptors and ion transporters, <i>Arabidopsis thaliana</i> . http://www.biochem.wisc.edu/sussman/	B (Biological)
Thomson, James	Anatomy; MIR	Understanding how primate embryonic stem (ES) cells choose between self-renewal, apoptosis, and differentiation into specific lineages. http://stemcells.wisc.edu/faculty/thomson.html	B (Biological)
van der Weide, Daniel	Electrical & Comp. Eng.	Multifunctional scanned probe microscopy; localized spectroscopy of biological and low-dimensional electronic systems. http://www.engr.wisc.edu/ece/faculty/vanderweide_daniel.html	A (Physical)
Wahba, Grace	Statistics	Development, testing and application of new methods for multivariate function estimation and statistical model building. http://www.biostat.wisc.edu/People/faculty/wahba.htm	C (Computational / Statistical)
Yandell, Brian	Statistics	Statistical genomics, with the goal of unraveling the complex relationships between observable traits and molecular signals http://www.stat.wisc.edu/~yandell/	C (Computational / Statistic)
Yin, John	Chemical & Biological Engineering	Developing experimental and theoretical approaches to study growth, adaptation, and inactivation of viruses. http://www.engr.wisc.edu/che/faculty/yin_john.html	A (Physical)