

## Bioinformatics Engineer I

Functional Genomics Shared Resource (FGSR), Vanderbilt University Medical Center

One Bioinformatics Engineer I position is available immediately to join the Vanderbilt Microarray Shared Resource (VMSR, <http://array.mc.vanderbilt.edu/>). The VMSR is currently under expansion and in the transition to Functional Genomics Shared Resource (FGSR). The successful candidate is expected to join the Informatics Group which includes bioinformatics engineers and post-doctoral fellows and is under the leadership of Dr. Zhongming Zhao, Chief Bioinformatics Officer in Vanderbilt-Ingram Cancer Center. The position is supported by the Vanderbilt-Ingram Cancer Center.

### Job Responsibilities:

1. Data process and transfer and computer support for the Vanderbilt Microarray Shared Resource (VMSR).
  - 1a. Data process, quality control, data transfer, and basic analysis for microarrays.
  - 1b. Provide software and hardware installation and maintenance for the various computers in the VMSR.
2. Database development and software design
  - 2a. Develop web-based tools to access data contained in the databases maintained by the VMSR.
  - 2b. Develop software tools to automate the transfer of data from internal databases.
  - 2c. Develop custom software to assist users in data analysis to present information for publication and grant submission.
3. Web development
  - 3a. Assist with design and maintenance of web-based resources including web pages.
  - 3b. Develop web pages for online submission of sample information and handling.
4. Assist with training and educational support to users of shared resource lab
5. Actively identify and participate in training, education, and development activities to improve own knowledge and performance to sustain and enhance professional development

### Requirements

- a. Require some experience in processing high-throughput genomic datasets derived from microarray and some other high throughput technologies as well as familiarity with available third party software packages useful to analyzing these data.
- b. Effective communication skills are required.
- c. Those candidates having experience in basic quality control and analysis in Affymetrix, Agilent, and NimbleGen arrays are strongly encouraged to apply.

Applicants should send a CV and reference to: Zhongming Zhao ([zhongming.zhao@vanderbilt.edu](mailto:zhongming.zhao@vanderbilt.edu)), Chief Bioinformatics Officer, Vanderbilt-Ingram Cancer Center. Please specify the position “Bioinformatics Engineer I in FGSR” in the application.

## **Bioinformatics Engineer II**

Functional Genomics Shared Resource (FGSR), Vanderbilt University Medical Center

One Bioinformatics Engineer II position is available immediately to join the Vanderbilt Microarray Shared Resource (VMSR, <http://array.mc.vanderbilt.edu/>). The VMSR is currently under expansion and in the transition to Functional Genomics Shared Resource (FGSR). The successful candidate is expected to join the Informatics Group which includes bioinformatics engineers and post-doctoral fellows and is under the leadership of Dr. Zhongming Zhao, Chief Bioinformatics Officer in Vanderbilt-Ingram Cancer Center. The position is supported by the Vanderbilt-Ingram Cancer Center.

### Job Responsibilities:

1. Data process and transfer and computer support for the Vanderbilt Microarray Shared Resource (VMSR).
  - 1a. Data process, quality control, data transfer, basic analysis and some advanced analysis for microarrays.
  - 1b. Provide software and hardware installation and maintenance for the various computers in the VMSR.
  
2. Database development and software design
  - 2a. Develop web-based tools to access data contained in the databases maintained by the VMSR.
  - 2b. Develop software tools to automate the transfer of data from internal databases.
  - 2c. Develop custom software to assist users in data analysis to present information for publication and grant submission.
  
3. Web development
  - 3a. Assist with design and maintenance of web-based resources including web pages.
  - 3b. Develop web pages for online submission of sample information and handling.
  
4. Provide training and educational support to users of shared resource lab
  - 4a. Develop manuals and detailed documentation for training sessions.
  - 4b. Develop and lead monthly training to the resource users on the various informatic and analysis software packages supported by the area.
  
5. Serve as a leader to ensure objectives are met
  - 5a. Provide bioinformatics leadership for the lab core, staff, and students.
  - 5b. Instruct in methods and procedures using effective teaching techniques.
  - 5c. Handle employee problems.
  - 5d. Hire, terminate and discipline according to institutional policies.
  
6. Actively identify and participate in training, education, and development activities to improve own knowledge and performance to sustain and enhance professional development

### Requirements

- a. Experience in processing and analyzing high-throughput genomic datasets derived from microarray and some other high throughput technologies as well as familiarity with available third party software packages useful to analyzing these data.
- b. Effective communication skills are required.
- c. Those candidates having significant experience in basic quality control and analysis as well as advanced analysis of data generated by Affymetrix, Agilent, and NimbleGen arrays are strongly encouraged to apply.

Applicants should send a CV and reference to: Zhongming Zhao ([zhongming.zhao@vanderbilt.edu](mailto:zhongming.zhao@vanderbilt.edu)), Chief Bioinformatics Officer, Vanderbilt-Ingram Cancer Center. Please specify the position “Bioinformatics Engineer II in FGSR” in the application.