Bioinformatics Intensive Internship
Summer 2016

Where: The National Center for Genome Resources, Santa Fe, NM

When: June 6 thru July 22, 2016

Begins with 2 weeks of instruction followed by 5 weeks of hands-on projects including a presentation of your work.

Who: Undergraduate and graduate students and others who are interested. We will accommodate as many students as we can.

Topics covered:

- UNIX and running command line based algorithms and tools
- Next Generation Sequencing (NGS) Technologies and wet lab overview
- Variant Detection
- Gene Expression Analysis
- Pathway Analysis
- Genome and Transcriptome Assembly Methods
- PacBio IsoSeq
- Annotation
- Metagenomics
- Genotyping By Sequencing (GBS)
- Epigenetics
- New applications and more!

Application deadline: 11:59pm Saturday, April 30, 2016 (space is limited)

Sponsored by:
New Mexico IDeA Network for Biomedical Research Excellence (NM-INBRE).

Prerequisites:
The program requires some knowledge of UNIX and includes prerequisite reading and understanding of chapters 4 and 5 of the following:

(http://my.safaribooksonline.com/book/bioinformatics/1565926641)

Application requirements:
Space is limited and acceptance into the internship is competitive based on who is a good candidate and will benefit most from the program.

Students must supply their own laptop computer in order to attend.

Please answer the following questions and send to inbre@ncgr.org (mailto:inbre@ncgr.org).

1. Name
2. Gender
3. School/Affiliation
4. Year of study and estimated graduation date
5. Advisor's name
6. INBRE/COBRE/RCMI/Other affiliation?
7. Are you funded by a grant during the internship period?
8. Dates of availability for the duration of the 7-week internship.
9. Contact information: mailing address, main phone number, email
10. Do you have a dataset you want to analyze? If so, please describe (e.g. 10 samples of 2x50 Illumina reads approximately 20M reads each).
11. What type of analysis are you interested in? Gene expression? Mutation analysis? sRNA expression analysis, etc?
12. NM-INBRE (first preference), INBRE, COBRE and RCMI affiliates who need assistance with expenses may apply for a competitive travel/lodging scholarship. Please indicate on your application if you are interested.
13. Include your CV.
14. Include a letter of recommendation from your advisor/mentor/PI describing why you are a good candidate for the course.