



2017 Summer Research Experience for Undergraduates Research and Development of Algorithms in a Software Factory

Topics Include:

- ◆ Tools for Reducing the Technical Debt of Systems.
- ◆ Tools for Computing Genomic Distances with Gene Duplications
- ◆ Software Tools for Pan-genomics
- ◆ A Testing Framework for Systematic Testing of Scientific Software
- ◆ Sustainable Software Package for Topological Data Analysis
- ◆ Understanding Trustworthiness in Mobile Social Networks
- ◆ Studying the Structure of Music through Topological Data Analysis
- ◆ Risk-based Vehicle Health Management
- ◆ Biomedical Natural Language Processing Tool for Extracting Protein-Function Relations from Literature

Highlights:

- ◆ 10 weeks, May 29 - August 4, 2017
- ◆ \$5000 stipend
- ◆ Travel expenses up to \$600
- ◆ Housing at Montana State University (MSU)
- ◆ Meal allowance \$120/week
- ◆ State-of-the-art research facilities
- ◆ Faculty-student mentoring
- ◆ Weekend outings and social activities

About Montana State University:

- ◆ Located in Bozeman, Montana, an extended community of 70,000 nestled in the Rocky Mountains
- ◆ Approximately 16,000 student and over 2,000 graduate students

Nearby Attractions:

- ◆ Yellowstone National Park
- ◆ Recreational opportunities including mountain biking, hiking, blue-ribbon trout fishing, only minutes from campus
- ◆ Sweet Pea Festival and weekly Music on Main

Eligibility

- ◆ US citizens or permanent residents
- ◆ Sophomore standing in computer science or closely related field (see website for full details)

Program Director

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More Information and How to Apply:
<http://www.bobcatsoftwarefactory.com/nsf-reu-2017/>