



Advanced Analytics and Informatics Support Project Request Form

Please complete the survey below.

Please fill out the form as best as you can to request approval and resource for your project.

Once you submit the form, you may be contacted for more detailed information regarding your request. All new requests are evaluated at a weekly Project Prioritization meeting. At this meeting requests are evaluated as follows:

- Is the project from a work unit that is associated with the Advanced Analytics and Information Support (AAIS) Section,
- Is the work needed for the project the type of work this section does (i.e. do we have the skills to do this work),
- Has the project been approved by Departmental/Division/Center Committees, and
- Ensure there aren't existing tools/applications/systems that already handle this work (i.e. is this a duplicate request).

Once discussed, your request will either be approved to be worked on, put in the queue to be worked on at a future date (when resources are available) or denied. You will be notified of the decision that is made and associated start dates or estimated start dates.

Note: the asterisks indicate required fields.

Thank you!

Requestor - lan ID*	<input type="text" value="freir2"/> * required
Requestor - Full Name	<input type="text" value="Robert Freimuth"/> * required
Requestor - Email	<input type="text" value="freimuth.robert@mayo.edu"/> * required
Submitter (If Different from Requestor) - lan ID	<input type="text"/>
Submitter (If Different from Requestor) - Full Name	<input type="text"/>
Submitter (If Different from Requestor) - Email	<input type="text"/>
Project Implementation Site*	<input type="checkbox"/> Arizona <input type="checkbox"/> Florida <input checked="" type="checkbox"/> Rochester <input type="checkbox"/> MCHS <input type="checkbox"/> Enterprise * required
Project Name*	<input type="text" value="MSC - VCF extensions"/> * required
Description of Project (Including Deliverables If Known)*	<input type="text"/>

Goal: To extend the Medical Safety Code (MSC, safety-code.org) web app to handle data from the PGRN Seq 2 (next gen) platform. This involves developing a compression service that can be plugged into the existing code.

Existing resources: The MSC software is open source and the owner of the project is a collaborator of mine. He has a developer that will help us integrate our extensions into the code base so we should not have to spend much time learning the existing code.

Functional requirements:

1. Take as input a VCF file (this will be provided to our extension by the existing web app)
2. Validate the format of the VCF file using utilities from VCFTools (<http://vcftools.sourceforge.net/>)
2. Access runtime parameters (provided by a text file and/or database query)
3. Filter the input VCF file using the provided params and utilities from VCFTools
- ?? Annotate the filtered data using CRAVAT (<http://www.cravat.us/>), filter as per input params (this step could be done outside of this routine, will discuss with collaborator) ??
4. Verify each variant from the filtered VCF file is in the database, insert if needed
5. Create a compressed string representing variant data using database codes and existing compression algorithms (exact algorithm will be chosen after running some tests)
6. Return the compressed string to the calling routine

Deliverable:

A service or set of java classes that can be plugged into the existing MSC codebase. The determination between these options will be made after discussion with the MSC developer.

Type of Project*

Other

* required

Proposed Start Date:*

04/06/2015



* required

Desired Finish Date

05/22/2015



Is This a Hard Date? *

☐ Yes ☒ No

* required

[reset value](#)

Is Funding Source Known?*

☒ Yes ☐ No

* required

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If Funding Source is Known, What is the Funding Source? *

PGRN PHONT grant

Name of Principal Investigator or Sponsor*

Robert Freimuth

* required

Have you discussed this project with someone in IT?

☒ Yes
☐ No

* required

[reset value](#)

What is the IT person's name?

Ite Rana, Mat Wiepert

Project Impact*

☒ Department ☐ Division ☐ Enterprise (all sites) ☐ Site(s)

[reset value](#)

* required

Has Your Project Received Committee or Departmental Leadership Approval?*

☐ Yes ☒ No

[reset value](#)

* required

Are There Existing Resources Available to Devote to the Project? *

☐ Yes ☒ No

[reset value](#)

* required

Submit

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