SeisCode is a community repository for software used in seismological and related fields. The goals of the repository include:

- Increase the discoverability of the software
- Provide a long-term home for software projects
- Allow authors to manage their own projects
- Provide software project tools, such as versioned source code management

Multiple uses

The complexity of a SeisCode project can range from a simple overview page which directs users to an external site to a fully SeisCode managed project providing source code control, issue tracking and a documentation repository:

- **Simple project entry:** a bookmark
  A descriptive paragraph and a link to the project site, useful for increasing discoverability

- **Source code bundles and simple documentation**
  A descriptive paragraph and a link to bundled software and READMEs

- **Large-scale software project**
  Use source code repository, issue tracking, Wiki documentation and bundled downloads

- **A long-term home for orphaned software projects**
  Rating: Month-institution? Transfer software projects to SeisCode for a long-term home or update a “bookmark” for a persistent pointer

- **Collaborative software development project**
  The central “hub” in a software development project with multiple contributors

- **Collect feedback and interact with users of your software**
  The Issue Tracking and Forum components of a project can be used to gather bug reports, feature requests and provide support. If the user base is large enough they may support

Major features of SeisCode

- Search for software using descriptions and keywords or browse the projects either by category or as a complete list
- No account needed to search, read and download software
- Project owner has comprehensive control of each project
- Software projects with many optional tools and components:
  - **Overview:** the only required component is a description of the project
  - **Wiki:** easily edited online documentation, and, when registered, downloadable as PDF, HTML or Text
  - **Source code repository:** online code browsing, subversion repository access
  - **Issue Tracking:** for bug reports and feature requests. Requires account and access
  - **Files:** for bundled releases
  - **Documents:** for documentation created externally
  - **Forums:** for discussions and collaboration
  - **News:** for announcements and new releases available as an Atom feed
  - **Time tracking:** Calendar and Gantt charts

Potential future extensions:

- Browsable list of keywords, cross-grouping projects based on keyword
- Automated tweets for projects

Getting started with your own projects

Tutorials exist within the SeisCode project Wiki to help those searching and those contributing to get started.
https://seiscode.iris.washington.edu/projects/seiscode

1. Register and 2. Sign in
If you have not yet registered for SeisCode, then click Register in the upper-right hand corner of the site. Registration is required for creating and managing projects.

3. Create a new project
A. From the Projects list click on and fill out the new project form:

B. Select the components desired for the new project, these can be changed at any time

More help is available on the site for setting up a code repository, importing code, and using the enhanced features of Seiscode.

Other related resources

The ORFEUS Seismological Software Library hosts and contains links to a large variety of software relevant to their work:
http://www.orfeus.eu/Software/softwarelib.html

The USGS Earthquake Hazards Program site contains a list of software relevant to their work:
http://earthquake.usgs.gov/research/software/

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