

## Nanoelectronics Lab A63 Training Procedure

To get a key to the Nanoelectronics Lab, Fitzpatrick A63a, you must be trained. First find a student who is an authorized user and keyholder to the nanoelectronics lab. That student will train you and help you with measurements until you are authorized. See [www.nd.edu/~nano](http://www.nd.edu/~nano) for names and photos of some of the students who can help you. There are also authorized users from Fay, Jena, Xing and other groups.

**You are not authorized to use the system independently until you receive approval from Alan Seabaugh.**

Next schedule an examination with Alan Seabaugh in A63a in which you will be asked to demonstrate that you are competent to work independently. Prior to this meeting you should go over the documents on [www.nd.edu/~nano](http://www.nd.edu/~nano) under the facilities page.

1. You should know the laboratory policy and procedures. You should be able to demonstrate competence with the procedures and equipment adjustments.
2. You should know where the probe station vacuum switches are and how they are used.
3. You should know the three probe types, when to use the various probes, how defective probes are disposed of, how probes are cleaned, and how to replace them. You should be ready to demonstrate that you can do these tasks.
4. You should be able to explain how the triaxial guarding in current-voltage measurement system works and why it is needed.

Once you have passed this training, you can get a key from Clint Manning, Fitzpatrick 253. For more information, see the facilities section of [www.nd.edu/~nano](http://www.nd.edu/~nano).