Project Goals
Understanding the composition and evolution of Earth and other planets from the properties of rocks

Resources Needed
List your needed resources such as
- Shops: electronics shop
- Cores: TEM, FIB
- Expertise: operation of TEM, FIB
- Training: training of users, workshops to do hands-on training of new methods
- Personnel: dedicated specialists with expertise in TEM, FIB operation
- Management: Financial support from Yale is essential to reduce the users’ fee (to cover a part of maintenance cost).

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Link/Reference
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Current Approach

We conduct experimental studies using (i) our own facilities in our lab and (ii) nation-wide facilities such as synchrotron facilities (Brookhaven, Argonne). Activities using (ii) are supported by a consortium. In addition, we need university-wide facilities (such as TEM, FIB) to analyze samples. These facilities at Yale are very limited in comparison to those in other world-class institutions and we cannot do these activities at Yale. At the moment, we rely on collaborations with other scientists at other institutions (mostly in other countries).

How might a new instrumentation development center help?  
What research would be enabled by an instrumentation development center?  
What difference can it make to your research and the training of personnel?

With facilities on campus, we can investigate samples ins and outs. This is hard when we need to send samples out.  
Installation of FIB and TEM with dedicated technical personnel will be essential.