**Interest Survey for 2016 NE 170 Senior Design Projects**

**Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Shreyas Srinivasan\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Major:**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_EECS/Nuclear Engineering\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rank your interest in each project, from 1 (most interested) to 5 (least interested)

|  |  |
| --- | --- |
| **Topic** | **Ranking** |
| Environmental Sample Analysis by Means of Neutron Activation Analysis and Gamma-Ray Counting | 1 |
| A multi-purpose user facility based on proton accelerators | 3 |
| Cross section measurements by neutron-induced activation | 4 |
| Innovative approaches to molten salt reactors | 2 |

Rank your interest in working in each of the following areas, with 1 being the most interesting. For areas that are equally interesting, you may use the same number

|  |  |
| --- | --- |
| **Area** | **Ranking** |
| Neutronics modeling | 8 |
| Radiation detectors | 2 |
| CAD modeling | 8 |
| Structural mechanics finite element modeling | 8 |
| Programming (please specify languages) | 4 - python |
| Life-cycle assessment and economics modeling | 3 |
| Scheduling and leading group meetings, coordinating group reporting during full class meetings | 5 |
| Identifying subject matter experts and scheduling interviews | 5 |
| Developing report outlines, leading authoring and document control | 5 |
| Electronics | 1 |
| Other (provide short description) |  |

Comments/suggestions:

Regarding the MSR project, I would like to participate in the following projects if enough people show interest. Otherwise, I would like to be part of the NAA group:

1. 4b – utility-scale liquid fuel reactor for Southern Company
2. 2 – ThorCon Power
3. 5 – Moltex Energy