

JOB TITLE	Student Research Assistant
DEPARTMENT NAME	Chemical Engineering
JOB LOCATION	Benson Hall
CONTACT/SUPERVISOR	Hong Shen
PHONE NUMBER	1-206-543-5961 (Complete 10-digit number)
EMAIL ADDRESS	hs24@u.washington.edu
BOX NUMBER	351750
EMPLOYMENT PERIOD	Summer Only <input checked="" type="checkbox"/> Sum & Acad Year <input type="checkbox"/> Acad Year Only <input type="checkbox"/>
HOURS PER WEEK	Sum: 40 hrs/wk <input checked="" type="checkbox"/> up to 19 hrs/wk <input type="checkbox"/> Acad Yr: up to 19 hrs/wk <input type="checkbox"/>
RATE OF PAY	\$10.00 (Compliance with current UW Student Pay Schedule)

Duties and Responsibilities:

The project is to determine parameters of surface affect the efficiency of surface-mediated gene delivery towards applications of tissue engineering. The duties and responsibilities include:

1. Maintaining cell cultures;
2. Fabricating substrates with varying surface structures by self-assembly;
3. Fabricating and characterizing substrates with abilities of gene transfer;
4. Characterizing substrates made in 2 and 3;
5. Testing the effectiveness of substrates in delivering genes into cells;
6. Conducting data analysis;
7. Writing progress report at the end of each month and writing the final report at the end of summer;
8. Attending weekly group meetings;
9. Reporting experimental results weekly to the advisor (Hong Shen)

Minimum Qualifications:

1. General chemistry
2. General Biology
3. Has a knowledge of excel, word and powerpoint
4. Basic algebra

Educational Benefits:

1. Gaining research experience
2. Learning practical problem solving skills
3. Enforcing knowledge learned in the classroom and applying knowledge to open-ended questions
4. Learning how to conduct research independently
5. Learning how to communicate ideas in a community with/without scientific background
6. Learning how to be an effective team player
7. Gaining skills of literature-based learning

OFFICE USE ONLY

Job Class Code: 0875 0872 Grad: 0881 0882 0883
 51% Comp. to Classified: Yes No
 State Federal
 Open Closed

JOB NUMBER:

11CENG03

JOB CATEGORY:

RESEARCH