**Center for Statistical Training and Consulting (CSTAT)**   
**Information Sheet for Graduate Student Research Assistants Applicants**

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Semester(s) applying for: \_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address/Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date when you plan to graduate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Degree expected and subject: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Degrees held:

B.S. or B.A., Subject/University/Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

M.S. or M.A. Subject/University/Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Have you already completed your Ph.D. comprehensive/qualifying exams? If not, state when you expect to do that: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Preference: ¼ time appointment ½ time appointment  
 Hourly appointment Volunteer

1. Describe any other work experience or qualifications that you have.
2. Describe why you would like to work at CSTAT.
3. Please list any CSTAT Seminars and Workshops or courses on Coursera, EdX, Udemy that you have taken.
4. Please list any research methods and research design courses that you have taken.
5. Please list statistics and computing courses that you have taken.
6. What are your computational skills? Use the following rating scale:

0= little or no experience with the item.

1= you are reasonably familiar with the item.

2= you have extensive experience with the item.

You may add and rate additional software that is relevant.

|  |  |  |  |
| --- | --- | --- | --- |
| **Software** | **Rating** (0, 1, 2) | **Software** | **Rating** (0, 1, 2) |
| R |  | Mplus |  |
| R markdown |  | Access or other databases |  |
| SAS |  | Python |  |
| SPSS |  | PASS |  |
| STATA |  | STAN |  |
| MATLAB |  | WinBUGS/JAGS |  |

1. Please rate both your current level of skill and your level of interest in each of the following statistics topics. If a topic relevant to your skills is missing, please add it to the bottom of the list.

| **Statistical Topics** | **Experience**  0 = little/no experience  1= moderate  experience  2 =extensive experience | **Level of Interest**  0 = little/no interest  1= moderate interest  2 = high interest | **Comments** |
| --- | --- | --- | --- |
| Bayesian statistics |  |  |  |
| Categorical data analysis |  |  |  |
| Data management |  |  |  |
| Data visualization |  |  |  |
| Dose-response curves/models |  |  |  |
| Evaluation of regression models |  |  |  |
| Experimental design |  |  |  |
| Longitudinal data analysis |  |  |  |
| Machine learning algorithms (e.g. lasso, random forests, SVM, boosted classifiers) |  |  |  |
| Measurement development & psychometrics |  |  |  |
| Missing data |  |  |  |
| Mixed effects models (multilevel models, random effects models) |  |  |  |
| Time dependent outcomes (survival, landmark, dynamic prediction) |  |  |  |
| Power analysis and sample size planning |  |  |  |
| Regression analysis (linear and generalized linear models, variable selection) |  |  |  |
| Social network analysis |  |  |  |
| Spatial or spatio-temporal data analysis |  |  |  |
| Statistical genomics/genetics |  |  |  |
| Structural equation models (SEM) & latent variable models |  |  |  |
| Survey research |  |  |  |
| Systematic reviews and meta analyses |  |  |  |