

CPSC 689: Algorithms for Evolutionary Bioinformatics
Project Proposal
January 23, 2008

1 Due Date

Your proposal is due on **Wednesday, February 6, 2008**.

2 Proposal Requirements

The project proposal is a short document (2–3 pages) that describes your project plan. Your proposal must adequately address the following areas.

- *Problem definition.* What is the biological problem you are working on? Why is it significant? What could be done if the problem were solved? What kind of data is available?
- *Computational/Algorithmic methodology.* What computational method(s) will you use to address the problem? Be specific and detailed about your plan. Why do you believe the proposed method(s) will solve the problem? Are you comparing multiple methods? If so, why these methods (and not others)? Are there any limits to the method's applicability? Is it practical to implement the method and apply it to the available data? Is the available data adequate?
- *Evaluation strategy.* How will you know if your method worked in solving your problem? What testing strategy will you use to ensure your test is representative and unbiased? If you were comparing alternative methods, why is your proposed comparison a fair one.
- *Project timeline.* How much time is required to complete each phase of your project? Is your timeline realistic?

3 Proposal format

Your proposal should at the very least include an introduction, related work, project evaluation, and references. Please number your sections appropriately and stick to a one-column format. Also, make sure your proposal sufficiently addresses the questions given above. As for other specifics related to your proposal, use 1 inch margins and an 11 or 12-point font.