Management and Coordination Plan

The (co-)PIs, all of whom are from Illinois Tech, will serve together as the Management Team for this project:

- Fred J. Hickernell (PI), Professor of Applied Mathematics and Director of the Center for Interdisciplinary Scientific Computation (CISC),
- Sou-Cheng Choi (co-PI), Research Associate Professor of Applied Mathematics and Lead Researcher at Allstate,
- David Minh, Assistant Professor of Chemistry and Associate Director of CISC,
- Xian-He Sun, Distinguished Professor of Computer Science, and
- Jeff Wereszczynski, Assistant Professor of Physics.

The Management Team will meet bi-monthly to share progress of the project initiatives, discuss challenges that arise, and strategize on how to make our initiatives more effective.

The Management Team will be assisted by the following Illinois Tech colleagues:

- Norman Lederman (Senior Personnel), Distinguished Professor of Science Education,
- Kiaw Wah Ong (Senior Personnel), Lecturer in Mathematics, and
- April Welch (Internal Collaborator), Associate Vice-President of Strategic Initiatives.

They will meet with the whole Management Team or with individual (co-)PIs as needed.

As mentioned in Sect. 5 of the Project Description, an External Advisory Board will be formed, consisting of the following members:

- Dr. Tom Carter, Professor of Physics at College of DuPage (CoD),
- Dr. Lois Curfman McInnes, Senior Computational Scientist in the Mathematics and Computer Science Division at Argonne National Laboratory, and
- Dr. Burt Holzman, Assistant Director of the Scientific Computing Division at Fermi National Accelerator Laboratory (Fermilab).

The table below shows the persons responsible for each major task. The first person listed for each task takes the lead. The budget column lists the financial support from the proposed grant for each item, including materials and supplies (Mat), summer salaries (Sal), stipends (Sti), substinence (Sub), and travel (Tra). HSal denotes salary for Hickernell, and LSal, MSal, SSal, and WSal have analogous meanings. Budget entries "Tuition" are covered by the tuition received from enrolled students.

Task (with reference to the Project Description)	Persons	\mathbf{Budget}
3.3 Summer computational science course		
—Course design and content creation	Ong, Hickernell	HSal
 Advertisement to prospective students 	Welch, Ong	Mat
Instruction and supervision of TAs	Ong	Tuition
- Evaluation	Lederman, Ong	LSal
3.4 Advertisement of our computational course offer-	Hickernell	Mat
ings		
3.4.1 Enriched existing computational science offerings		
- Applied mathematics	Hickernell	HSal
- Chemistry	Minh	MSal
- Computer science	Sun	SSal
-Physics	Wereszczynski	WSal
3.4.3 Professional practices for computational science		
course		
 Course design and content creation 	Hickernell, Choi	HSal
- Instruction	Hickernell, Choi	Tuition

3.4.4	- Evaluation Undergraduate parallel and distributed comput-	Lederman, Hickernell	LSal, HSal
	ing course		
	- Content revision	Sun	SSal
	- Instruction	CS faculty	Tuition
	- Evaluation	Lederman, Sun	LSal, SSal
3.4.5	Large-scale scientific computation course		
	- Content revision	Sun	SSal
	-Instruction	CS faculty	Tuition
	- Evaluation	Lederman, Sun	LSal, SSal
3.5	Research experiences for community college stu-		Sti
	dents		
	- Recruiting students from CoD	Wereszczynski,	WSal
		Carter	
	- Crash course design and instruction	Minh, Wereszczynski	MSal, WSal
	- Weekly lunchtime discussions	Wereszczynski	Sub
	- Evaluation	Lederman, Minh,	LSal, MSal,
0.0		Wereszczynski	WSal
3.6	CISC undergraduate and graduate summer fellowships		Sti
	- Identifying project opportunities in national	Hickernell, Choi,	HSal, MSal,
	labs and companies	Minh, Sun,	SSal, WSal
		Wereszczynski,	
		Curfman McInnes,	
		Holzman	
	- Advertisement of opportunities	Hickernell, Minh	HSal, MSal
	- Selection of CISC Fellows	Hickernell, Choi,	HSal, MSal,
		Minh, Sun,	SSal, WSal
		Wereszczynski	MO 1 HO 1
	- Concluding poster session for CISC Fellows	Minh, Hickernell	MSal, HSal
	and CoD students	T 1 TT' 1 11	TO LITE 1
4.0	- Evaluation	Lederman, Hickernell	LSal, HSal
4.6	Attend PI meeting at the NSF	Hickernell Chai	Tra
4.6	Publish findings in journals and online	Hickernell, Choi,	HSal, MSal,
		Minh, Sun, Wereszczynski,	SSal, WSal, LSal
		Lederman, Ong	LSai
16	Share findings at conferences	Hickernell, Choi,	Tro HCol
4.6	Share initings at conferences	Minh, Sun,	Tra, HSal,
			MSal, SSal,
		Wereszczynski, Lederman, Ong	WSal, LSal
5	Organizing meetings of the Management Team	Hickernell	HSal
J	and the External Advisory Board	THUNCHHOH	110ai
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