



REQUIRED Cover Page

APPLICATION FOR PROFESSIONAL DEVELOPMENT GRANT

**All applicants please complete this cover page.

Choose one: <input type="checkbox"/> Creative activity <input type="checkbox"/> Research activity <input type="checkbox"/> Professional Enhancement activity	Date of Last PDG Award (Semester and Year awarded): <u>Spring 2006</u> Date of ATU Faculty Appointment (Semester and Year): <u>Spring 1989</u>
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1. Project Title: IBM Academic Initiative Summer School
2. Name of Principal Investigator/Project Director: Sarah Robison
3. School (abbrev): SS 4. Department: Computer & Information Science
5. Campus Mail Address: Corley 201C 6. PI/PD Campus Phone: 968-0665
7. Amount Requested: \$ 3,341 8. Total Cost of Project: \$ 3,341
9. Does this project involve: 10. Duration of Project: 1 week

Yes No

- ☐ ☒ human subjects?
☐ ☒ animals/animal care facility?
☐ ☒ radioactive materials?
☐ ☒ hazardous materials?
☐ ☒ biological agents or toxins restricted by the USA Patriot Act?
☐ ☒ copyright or patent potential?
☐ ☒ utilization of space **not** currently available to the PI/PD?
☐ ☒ the purchase of equipment/instrumentation/software currently **available** to the PI/PD?

NOTE: If the answer is "yes" to any of the above questions, the investigator must attach appropriate documentation of approval or justification for use/purchase.

SIGNATURES

<u><i>Jamy Moull</i></u>	<u>5/1/07</u>
Department Head	Date
<u><i>[Signature]</i></u>	<u>5-1-07</u>
Dean	Date

This Section to be completed by the Office of Academic Affairs

PDC Committee Award Recommendation: Yes No
PDC Committee Proposal Rank: of Total Proposals.
Recommendation of VPAA: Yes No
Recommendation of President: Yes No
Award Date:

Abstract.

As a member of the IBM Academic Initiative Program, faculty in the Department of Computer and Information Science at Arkansas Tech University are afforded the opportunity to attend a “Summer School” developed and administered by IBM personnel at the IBM iSeries Headquarters in Rochester, Minnesota. The school will be a combination of information and training. The sessions will be presented by top IBM personnel and educators in the field. The school will be held May 21st through May 24th.

Purpose/Objectives.

This school will afford faculty members relevant expert information and training. This years school provides training in The iSeries for Computer Professionals, DB2 for System I Database Using SQL, and WebSphere Development Studio.

Significance / Need.

The Department of Computer and Information Science has recently purchased a new IBM iSeries machine and is in the process of integrating it into more of our courses. Our curriculum currently requires all Information System majors to have training in this area and recommends that all other majors take a course using this system as an elective. This integration requires training and knowledge on the part of the faculty.

Process for Attainment of Objectives / Goals.

A Professional Development Grant is being requested for this Professional Development activity for three faculty members in the Department of Computer and Information Science – Sarah Robison, Johnette Moody, and Ron Robison. The IBM Academic Initiative Program, faculty in

the Department of Computer and Information Science at Arkansas Tech University are afforded the opportunity to attend a "Summer School" developed and administered by IBM personnel at the IBM iSeries Headquarters in Rochester, Minnesota. The school will be a combination of information and training. The sessions will be presented by top IBM personnel and educators in the field.

Repeated Requests.

While we attended the school, under a Faculty Development Grant, in 2006, each school is different. This years school provides training in The iSeries for Computer Professionals, DB2 for System I Database Using SQL, and WebSphere Development Studio.

Budget.

See attached. The total amount being requested for this grant is \$3,341. While most IBM training comes at a cost of approximately \$2500 for a weeks course, this school is being provided free of charge to IBM Academic Initiative members. The cost associated with the school is transportation, room, board, and miscellaneous expenses. These costs are outlined on the attached Proposed Budget form. The timing would require traveling to Rochester on Sunday, May 20th and returning on Thursday evening, May 24th.

Thank you for your consideration of this grant.



Sarah Robison
Associate Professor
Department of Computer and Information Science
Arkansas Tech University

PROPOSED BUDGET FACULTY RESEARCH GRANT

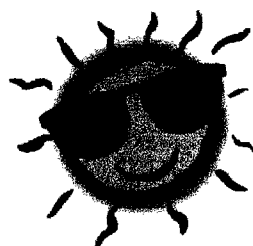
(include budget categories as appropriate)

1.	Graduate assistant stipend		\$ _____
	Fringe benefits @ .4% (4/10 percent) of graduate assistant stipend		_____
2.	Non-work study stipend		_____
	Fringe benefits @ .4% (4/10 percent) of non-work study stipend		_____
3.	*Supplies (please list items to be purchased and estimated price per item including taxes and shipping, if appropriate):		
	Item No. 1 (e.g., software)	Estimated Price	_____
	Item No. 2 (e.g., copying costs)	Estimated Price	_____
	Item No. 3	Estimated Price	_____
	(additional lines as needed)		
	Total estimated supplies		_____
4.	Travel (please list travel expenditures by date and estimated costs):		
	Airfare (\$650 per person)	Estimated Price	\$1950
	(May 20 & May 24)		
	Hotel Room (\$344 per person)	Estimated Price	\$1032
	Meals (\$60 per person)	Estimated Price	\$ 180
	Taxi (\$23 per person)	Estimated Price	\$ 69
	Transportation to/from LR Airport	Estimated Price	\$ 70
	Parking (Little Rock – 5 days)	Estimated Price	\$ 40
	Total estimated travel		\$3341
5.	*Capital Outlay (please list items to be purchased and estimated price per item including taxes and shipping, if appropriate):		
	Item No. 1	Estimated Price	_____
	Item No. 2	Estimated Price	_____
	Item No. 3	Estimated Price	_____
	(additional lines as needed)		
	Total estimated capital outlay		_____
	TOTAL PROPOSED BUDGET		\$ 3341

*Items purchased under \$2,500 (including taxes and shipping) are considered supply items. Capital Outlay items are those which cost \$2,500 or more (including taxes and shipping). Please contact the Purchasing Office for questionable items.



IBM Summer School 2007



Summer School

May 21-24, 2007

[Overview](#) [Logistics](#) [Agenda](#) [Enroll](#) [Scholarships](#)

Below is the agenda and abstracts for each workshop being offered during Summer School. Some of the workshops will run for several days, others for one day, so plan to attend each workshop in its entirety. We are also repeating some of the most popular workshops so you can take advantage of as many sessions as possible during the week.

Please be sure to let us know which sessions you plan on attending when you [enroll](#).

Monday-Wednesday, May 21-23

- *Introduction to System i for Computer Professionals:* If you are new or fairly new to the System i environment you will want to sign up for this class. This class will help you learn the fundamentals of the System i. System i is a series of enterprise servers providing computing resources for advanced business and e-business applications. You'll gain a technical understanding of the System i and develop basic skills to use System i in a business environment. [Learn more.](#)

Monday-Tuesday, May 21-22

- *Accessing the DB2 UDB for System i Database Using SQL:* SQL is a very powerful programming and database language that is widely used in business today. For example, SQL can be used to perform interactive database queries as well as to extract data from a server and pass that data to a Java applet running on a client PC. SQL is frequently used in System i high level languages as an alternate means to access the database. Learn how to access System i database files using SQL. Learn how to create, maintain, and query the database using the interactive SQL interface and Operations Navigator. [Learn more.](#)
- *Workshop: Developing Modern RPG Web Applications-By Example:* RPG is the preferred choice for development on the IBM System i. This two-day workshop focuses on teaching RPG as a modern Web application language. During this two-day workshop, Jim Cooper will walk through the process of using the powerful RPG language to develop and teach Web applications using technologies like embedded SQL, XML, AJAX, and Web Services. These applications will be developed using WDSi and deployed on

the IceBreak HTTP/Application Server. You develop applications using WDSi where the business logic is contained in an RPG program separate from the HTML user interface. There is no mixing of RPG and HTML code. To preview the templates that will be used, go to www.icebreak4rpg.com and click RPG Templates in the top menu bar. By the end of this workshop, you will be able to:

- o Develop modern RPG Web applications that include free-format code and procedures.
- o Use RPG to output an XML document as a data source bound to an HTML Web page.
- o Embed SQL into RPG Web applications, including SQL cursors and dynamic commands.
- o Dynamically populate a dropdown list using an AJAX call.
- o Use service programs/web services in an RPG Web application.
- o Use templates to develop RPG Web applications that will be accepted by today's students and users.
- o Understand how the power of the IceBreak HTTP/Application Server architecture simplifies RPG Web development.

Wednesday, May 23 (tentative)

- *DB2 UDB Open Lab: The Navigator lab modules are (Group 1):*
 - o DBL01: In this lab, you learn about the new features in Navigator for DB Universal Database (UDB) for System i in V5R4.
 - o DBL06: You will learn how to work with the new "always on" analysis tools for the Query Plan Cache in V5R4
 - o DBL09: You will learn how to use the new summary and analysis tools for analyzing SQL Performance Monitors for V5R4.
 - o Basic Lab - Piloting DB2 Universal Database for System i with Navigator V5R4
 - o Database Navigator and Generate SQL in DB2 Universal Database for System i on V5R4
- *DB2 UDB Open Lab (cont'd.): SQL and Database Function lab modules are (Group 2):*
 - o Creating and Managing Database Objects Using SQL
 - o Embedding SQL in a High Level Language (RPG) Program
 - o Introduction to Query Manager
 - o Introduction to SQL on the System i
 - o Using Referential Integrity for System i
- *Using WebSphere Development Studio Version 6.x: This is a one day session and will be repeated on Thursday. This two-part workshop is geared to the instructor that wants to maximize the use of this powerful Integrated Development Environment in their classroom. The first part will cover Remote System Explorer and the Debug perspectives and associated views. You will learn to create, modify and compile source files and program members. The second half will cover using CODE Designer to create Display Screens and Printfiles. Additional topics will include installation and updating the product. The majority of this seminar will be hands-on exercises. Learn why students love WDSi!*

Thursday, May 24

- *Using WebSphere Development Studio Version 6.x:* This is a one day session and will be repeated on Thursday. This two-part workshop is geared to the instructor that wants to maximize the use of this powerful Integrated Development Environment in their classroom. The first part will cover Remote System Explorer and the Debug perspectives and associated views. You will learn to create, modify and compile source files and program members. The second half will cover using CODE Designer to create Display Screens and Printfiles. Additional topics will include installation and updating the product. The majority of this seminar will be hands-on exercises. Learn why students love WDS*c*!
- *PHP on System i:* This combined lecture and lab will provide you with an opportunity to explore the fundamentals of the PHP language and how it is implemented on the System i. We will cover the basics of PHP programming from an RPG programmers perspective. In addition we will look briefly at the DB/2 and System i specific extensions available with the Zend Core for i5.