

SUBMISSION FORM
University System/Employee Intellectual Property Joint Participation
MUSP 407

This form is to be submitted with any Board of Regents item whereby a campus seeks the approval of an agreement with or arrangement regarding an employee pursuant to 20-25-109 MCA and Regents Policy 407.

When the submission concerns matters of trade secrets or confidential business information, or any other matter entitled to privacy under state or federal law (e.g., the federal statute known as Bayh/Dole) the submitting campus may request consideration of the submission, in whole or in part, in executive session.

The submitting campus should also provide the Commissioner a copy of the contract(s) that form the basis for the cooperative arrangement for which approval is sought. Submission of the contract does not indicate a conclusion that all or part of the contract is a public document and the question of whether it is in whole or in part protected from public disclosure will be evaluated on a case by case basis.

1. Summarize the nature of the intellectual property that was developed by the employee seeking approval. Indicate the sources of funding for the research that resulted in this invention.

“RadPC: A Novel Single Event Upset Mitigation Strategy for FPGA-Based Space Computing”- MUSP This technology is a computing architecture involving both hardware and software that allows a computer to detect faults that have occurred that may cause the system to crash and preemptively correct the errors. This causes the computer to be more reliable and suitable for critical applications such as aerospace and military missions. The technology is implemented on a programmable logic device (i.e., FPGA = Field Programmable Logic Array), which allows the computing hardware to be easily reconfigured to its original state in the event of a fault.

Funding has been awarded by NASA through over a dozen grants and launch opportunities. NASA is interested in using RadPC in the harsh radiation environment of space, which causes traditional computing technologies to crash.

2.

a. Name(s) of the university employee(s) involved.

- Dr. Brock LaMeres
 - Lead Inventor of intellectual property
 - Professor, Electrical and Computer Engineering, MSU

The MSU Office of Research Compliance is working with Dr. LaMeres to develop a Conflict of Interest Management Plan. The purpose of the plan is to

accurately describe the potential conflicts in writing, create explicit agreements to protect against actual conflicts, and to facilitate oversight. A Plan Manager will be assigned to review the case annually and whenever major changes in circumstance occur. Once Dr. LaMeres begins actively participating as an employee, officer, board member, or equity holder, and he reaches the Significant Financial Interest threshold, one of the safeguards of the Management Plan will include Dr. LaMeres' agreement not to participate in any capacity on the MSU side on any sponsored research or contracted work between MSU and Resilient Computing, LLC, all pending this BOR 407 approval.

b. Name(s) of business entity(ies) involved.

Resilient Computing, LLC, a new technology startup in Bozeman, MT (not yet formed).

3. The university and employee(s) are seeking approval for (check as many as appropriate):

- a. The employee to be awarded equity interest in the business entity
- b. The employee to serve as a member of the board of directors or other governing board of the business entity
- c. The employee to accept employment from the business entity
- d. Other. Please explain.

4.

a. Summarize the nature of the relationship between the university and the business entity (e.g., the entity is licensing the intellectual property from the university, the entity is co-owning the intellectual property with the university).

Resilient Computing wishes to license the intellectual property referenced above that are wholly owned by MSU. Negotiations are currently underway between Resilient Computing and the MSU Technology Transfer Office ("TTO"). TTO expects to execute a license agreement sometime in the next year.

b. The proposed duration of the agreement or arrangement.

The duration of the license is not yet known. This will be covered in the language of the agreement.

c. The conditions under which the agreement may be terminated or dissolved.

MSU will use the following standard agreement termination conditions:

- 1. If Resilient Computing does not make a payment due and fails to cure such nonpayment within forty-five days after the date of notice in writing of such nonpayment by MSU.

2. If Resilient Computing shall become insolvent, shall make an assignment for the benefit of creditors, or shall have a petition in bankruptcy filed for or against it. Such termination shall be effective immediately upon MSU giving written notice to Resilient Computing.
3. If an examination by MSU's accountant shows an underreporting or underpayment of Resilient Computing in excess of twenty percent for any twelve month period.
4. If Resilient Computing fails to satisfy the performance milestones.
5. Without the obligation to provide notice, if Resilient Computing files a claim, including in any way the assertion that any portion of the patent rights is invalid or unenforceable where the filing is by the Resilient Computing, a third party on behalf of the Resilient Computing, or a third party at the written urging of the Resilient Computing.

All License Agreements (and possible future licenses as provided for by Option Agreements) issued by the MSU Technology Transfer Office in which the inventor seeks business participation are contingent upon this BOR 407 approval. This is stated in the License Agreement.

5. Explain specifically how the University System or the State of Montana will likely benefit from the agreement or arrangement.

- a. The IP owned by MSU under the negotiated license provides MSU with annual maintenance and sublicensing fee income and royalties will generate revenue upon successful commercial development of the technologies
- b. Technical advances in the field with public and private contribution provides both academic and economic development
- c. Collaborative research opportunities for Montana State University and its students

6. Summarize the financial terms of the agreement or arrangement. Include:

a. The value, nature and source of the University's contribution.

MSU will pay for patent costs and will be reimbursed by Resilient Computing per the upcoming license agreement. TTO will pursue patent prosecution and provide marketing services and personnel hours. MSU will own any patents and retains the right to use the technology and patents for academic research or other not-for-profit scholarly purposes.

b. The value and nature of the employee's contribution.

As an MSU inventor, Dr. LaMeres will assist in the preparation and completion of the patent filings.

c. The anticipated revenue to be generated by the project and the timeline for generating such revenue.

The license agreement will set performance milestones for sales of the licensed technology, as well as annually due sales and marketing reports. There is no way to determine anticipated revenue at this early stage.

d. The manner in which revenue and expenses will be shared by the parties.

Royalty revenues will be shared by MSU and the inventors after payment of a development fee to MSU and collection of any unreimbursed patent costs. All expense information will be detailed in the confidential agreement language.

e. The nature of each party's equity interest in the project. If none, so indicate.

Dr. LaMeres will be the sole owner of Resilient Computing, LLC.