

**10<sup>th</sup> LISEF  
Broadcom MASTERS Middle School  
Science Fair 2020**



Regional Affiliate of

**Society for Science and the Public's  
International Science and Engineering Fair**

## **Guidelines and Registration**

<b><u>LISEF Contact Information</u></b>	<b><u>Mailing Address</u></b>
<p><a href="http://www.lisef.org">www.lisef.org</a> <a href="mailto:President@lisef.org">President@lisef.org</a> (631) 427-6428</p>	<p>LI Science and Engineering Fair, Inc. 998 Old Country Road STE C PMB 164 Plainview, NY 11803</p>

**Fair Directors: Starlyn O'Shea**  
[MSfair@lisef.org](mailto:MSfair@lisef.org)

Regional Rules, Guidelines and Registration for  
the LISEF Broadcom MASTERS Middle School Science Fair  
**2019 - 2020**

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## Important Dates

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**LISEF Broadcom MASTERS Middle School Science Fair**  
**Thursday, March 12, 2020**

8 a.m. - 4 p.m.

Crest Hollow Country Club

8325 Jericho Tpke., Woodbury, NY 11797 - (516) 692-8000

**Friday, November 1, 2019** – Liaison and Student Registration Opens on Website

**Wednesday, January 22, 2020** – 8:00 p.m. Teachers' Online Application Deadline

**Monday, January 27, 2020** – Latest date LISEF will mail Middle School Fair Invoices

**Friday, March 6, 2020** – Deadline to receive Registration Payment

**Friday, March 6, 2020** – Deadline to receive LISEF Media Release Forms **VIA Email**

**Friday, March 6, 2020** – Deadline to receive 2020 LISEF MS Research Fair Verification  
Form **VIA Email**

**Thursday, March 12, 2020** – Broadcom MASTERS MS Science Fair & Awards Ceremony

## Mission Statement

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“Our mission is to promote excellence in scientific inquiry and discovery in LI schools.”

## Important Websites

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- [www.lisef.org](http://www.lisef.org)
- Broadcom MASTERS home page  
<https://student.societyforscience.org/broadcom-masters>
- The International Rules and Guidelines for Science Fairs is available on the Society for Science and the Public website: <https://student.societyforscience.org>

## Ethics Statement

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The Long Island Science and Engineering Fair, Inc., is an affiliate of the International Science and Engineering Fair (ISEF) and as such upholds the following ISEF Ethics Statement (ISEF Guidelines 2020, pages 4-5):

Student researchers, as well as adults who have a role in their projects, are expected to maintain the highest ethical standards. These include but are not limited to:

- Integrity. Honesty, objectivity, and avoidance of conflicts of interest are expected during every phase of research. The project should reflect independent research done by the student(s) and represent only one year's work.

- Legality. Compliance with all federal, country, state and local laws is essential. All projects must be approved by a Scientific Review Committee (SRC), and when necessary must also be approved by an Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), and/or Institutional Biosafety Committee (IBC).

- Respect for Confidentiality and Intellectual Property. Confidential communications, as well as patents, copyrights, and other forms of intellectual property must be honored. Unpublished data, methods, or results may not be used without permission, and credit must be given to all contributions to research.

- Stewardship of Environment. It is the responsibility of the researcher(s) and the adults involved to protect the environment and its organisms from harm. All projects involve some amount of risks. Everyone is expected to recognize the hazards, assess the risks, minimize them, and prepare for emergencies.

- Animal Care. Proper care and respect must be given to vertebrate animals. The guiding principles for the use of animals in research includes the following "Four R's": Replace, Reduce, Refine, Respect.

- Human Participant Protection. The highest priority is the health and well-being of the student researcher(s) and the human participants.

- Potentially Hazardous Biological Agents (PHBAs). It is the responsibility of the student and adults involved in the project to conduct and document a risk assessment, and to safely handle and dispose of organisms and materials.

Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, **use of electronic equipment during judging to obtain**

**information relevant to your project**, use or presentation of other researcher's work as one's own and fabrication of data. Fraudulent projects will be ineligible for consideration of becoming a Broadcom Masters Regional Nominee.

## General Eligibility for the LISEF Broadcom MASTERS Middle School Science Fair

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- Each school must have a school liaison.
- Research may be done over a maximum of 12 continuous months between January 2019 and May 2020.
- **All** students (including all members of a team) must be affiliated with a Nassau or Suffolk County educational institution (a home schooled individual/team should follow the instructions contained in this document.)
- Student must be enrolled in Grade 6 - 8.
- A team may consist of 2 or 3 members from the **SAME** school district.
- The maximum number of projects per school is 10.
- Each project must satisfy all the Intel ISEF rules and LISEF rules that apply.
- **NEW:** Every registered student and every teacher that attends must complete and **e-mail** a LISEF Media Release Form, on page 11. The signed LISEF Media Release Forms must be emailed to: [msfair@lisef.org](mailto:msfair@lisef.org) by **Friday, March 6, 2020**.
- **NEW:** In lieu of submitting ISEF Forms, principals and liaisons will be asked to sign and e-mail the 2020 LISEF MS Research Fair Verification Form, on pages 12-13, that the project complies with both the LISEF and ISEF guidelines. **(Send VIA email to [msfair@lisef.org](mailto:msfair@lisef.org) by Friday, March 6, 2020.)** **\*\*Please pay extra attention to the ISEF rules for Human subjects, Potentially Hazardous Biological Agents and vertebrate animals as these require extra supervision and/or approvals.**
- **A school that enters between 1 – 4 MS projects must provide one judge; schools that enter between 5-8 MS projects must provide 2 judges and those that enter between 9-10 projects must provide 3 judges. The teachers acting as judges must register the day of the fair PRIOR to checking in their students; if you fail to bring the correct number of judges your school may not compete.**

## Home Schooled Students Additional Requirements

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- The parent/guardian of the student wishing to present research at any of LISEF Inc.'s three fairs will act as the liaison.
- Once initial page of online registration is completed with contact information, the registration process is automatically suspended until Proof of Home Schooling is received, at which time you will be notified, and your registration may be completed. It is essential that obtaining Proof of Home Schooling be completed in a timely manner to facilitate completion of registration by the close of registration deadline.
- Proof of Home Schooling: The parent/guardian acting as the liaison must request that the Nassau or Suffolk school district in their community have their Pupil Personnel Office send a copy of the letter in which the school district approved the student's Individual Home Instruction Plan (IHIP) for the current school year to LISEF; this letter and/or an attachment made by the school district must define the grade level of the course of study. A copy from the parent is not sufficient.

- The parent pays the required fees per child that is a member of a registered project; the student cannot compete if this is not received by the published deadline. The parent should use the Direct Payment Form although it is designed for schools; write 'home school' where asked for School Name, parent information everywhere else except we do need the name of the school district in which you reside.
- The home-schooled student may enter only one project that covers research done over a maximum of 12 continuous months between January 2019 and May 2020.
- The home-schooled student's project must satisfy all the ISEF rules and LISEF rules that apply and complete all the appropriate ISEF forms.
- If the student's project is done in a Registered Research Institution, the LISEF SRC/IRB will sign any of the forms that require a local SRC signature once the student has completed their research as long as proof that all of the required prior reviews were conducted at the university. If the student's project is done in any place other than a Registered Research Institution, the student must seek prior reviews from the LISEF SRC/IRB.
- Home-schooled projects will not affect the Maximum Allocation granted to any school in that student's community.
- Since most students enrolled in a public/private school on Long Island that participates in LISEF, compete internally for the right to present at LISEF fairs, LISEF, Inc. expects that projects submitted to its fairs are of a high caliber and reserve the right to deny participation to a home-schooled project that is below LISEF, Inc.'s standards. LISEF, Inc. will review the submitted Research Plan and Abstract to determine if the project is eligible to compete. Although a project is unable to compete in one fair, it might be deemed eligible for one of the other LISEF affiliated fairs. If a project is ineligible for a fair, and a fee has been paid, that fee is refundable.
- The home-schooled student and parent that attend any of the three fairs must complete a LISEF Media Release Form, [on page 11](#).

## Judging

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Each project will be judged 2 times. The judges in each category will be middle school and high school teachers in the appropriate discipline.

## Awards

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1st Place Awards: As an affiliated fair, LISEF can nominate 10% of the number of students registered at our regional level to attend the Broadcom MASTERS national competition. Once nominated, the selected students must complete an application explaining their science project and demonstrating their use of STEM principles.

2<sup>nd</sup> Place Awards: 7% of the students will qualify

3<sup>rd</sup> Place Awards: 7% of the students will qualify

Honorable Mention Awards: 7% of the students will qualify

You MUST be present at the award ceremony to receive an award.

**\*\*\*\*\*Please Note: No guests/observers (this includes but is not limited to school administrators, mentors, classmates, relatives, and or friends) are permitted inside any presentation rooms, or the awards ceremony held at the Crest Hollow Country Club the day of LISEF, LISEF JV, or Broadcom MASTERS. If guests/observers come the day of the fairs, they will be asked to leave the building.**

## Online School Liaison Registration

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1. One liaison is required for EACH school. **NEW:** If this person is the same person for more than one LISEF sponsored fair, they can register for all at the same time, and use the same log in (e-mail) and password for each fair (see website for more details). This person is responsible for the completion of the MS Verification Form, for up to 10 projects, submitted by the school attesting that all the LISEF and ISEF rules have been adhered to.
2. To complete the registration for your school, you will need the following information:
  - a. Liaison: The Liaison's name and contact information
  - b. School: The information about the school including address, principal's name and email address, method of payment, accounts payable contact number, Invoice Person name, phone number, address and email
  - c. Judges: Name of teacher(s) judging the LISEF Broadcom MASTERS Middle School Fair, their lunch type preferences, and email addresses. **A school that enters between 1 – 4 MS projects must provide one judge; schools that enter between 5-8 MS projects must provide 2 judges and those that enter between 9-10 projects must provide 3 judges.**
  - d. Projects: Project Title and a 150-word description of each project. This abstract should address the following 3 questions:
    1. What did the student (s) discover/build?
    2. How was this accomplished?
    3. What were the outcomes?

- e. Students: For each project, the names of each of the students must be submitted, their genders, grade levels and their lunch type preferences (pull-down menu: normal, kosher, vegetarian, gluten free). **NEW:** In addition, the first and last name of the parent/guardian, and their email address is required for each student.
3. After submission is accepted, you may re-enter to edit, or add projects until the close of registration, 8:00 p.m. Wednesday, January 22, 2020.

## Broadcom MASTERS Middle School Science Fair Info

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1. **NEW:** Please note the LISEF Media Release Forms for each student and teacher attending and one 2020 LISEF MS Research Fair Verification Form that includes each project (both forms are at the end of this document) **MUST BE** e-mailed to [msfair@LISEF.org](mailto:msfair@LISEF.org) by **Friday March 6, 2020**.
2. **ON the Day of the Fair**, Thursday, March 12, 2020:
  - a. Liaisons will register accompanying teacher judges at the registration desk after which they will be able to register their MS Research projects. A school that enters between 1-4 MS projects must provide 1 judge and schools that enter between 5-8 projects must provide 2 judges and those that enter between 9-10 MS projects must provide 3 judges. **Schools without the correct number of teacher judges will not be allowed to participate.**
  - b. Prepare a presentation of no more than seven (7) minutes and be prepared for a question and answer session of five (5) minutes. It is the judge's discretion to allow you to do a formal presentation. The MS Research Fair will have 2 rounds of judging.
  - c. Schools are required to provide a district employee to act as a chaperone on site during the entire competition and awards programs. This may be the school liaison or other teacher judge.

## Broadcom MASTERS National Competition

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1. Receive a nomination from your regional fair
2. Complete an application explaining your science project and demonstrating your use of STEM principles. Teammates each must complete the application. Students can compete at the Broadcom MASTERS even if their teammates choose not to accept the nomination and complete the application.

## Registration Fees

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1. If paying by check, the entry fee is \$50 for each student, individual or team member.



2. If paying through ESBOCES, the fee is \$55 per student; this cost is inclusive of the ESBOCES administrative fees.
3. Fees are not refundable.
4. Payment:
  - Purchase Orders will not be accepted\* however you may want to consider encumbering the funds early in the school year.
  - To pay directly, send to the LISEF mailing address:
    1. **One** check per school to cover all the school's registered students
    2. **One** copy of the LISEF Middle School Direct Payment Form
    3. **One** copy of the LISEF invoice, including the page with student names.
  - To pay through BOCES, send to the LISEF mailing address:
    1. **Two** copies of the completed and signed MS BOCES Participation form
    2. **One** copy of the LISEF invoice, including the page with the student list.  
NOTE: **Do not send these forms to BOCES.**
  - Cross contracts, if needed, should be sent to the school's BOCES district. **If Eastern Suffolk BOCES does not receive the Cross Contract in a timely manner, you must pay directly.**
  - Fees (or BOCES Forms) must be ***received*** no later than Friday, **March 6, 2020**.
  - Send your Direct Payment (with check) or BOCES documents to:

L. I. Science and Engineering Fair, Inc.  
998 Old Country RD STE C PMB 164  
Plainview, NY 11803

\*Contact [treasurer@lisef.org](mailto:treasurer@lisef.org) for questions with billing procedures.

5. Schools are subject to penalties on their registration numbers if the district fails to pay for every student registered in the Middle School LISEF Fair. If a school does not meet their financial commitment the school's allotment will be reduced by 50% for the following year and only increased by one slot each subsequent spot each year until the original allotment is reached.



## LISEF MS Fair 2020 DIRECT PAYMENT FORM

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School Year: 2019 - 2020

School Name: \_\_\_\_\_

School Address: \_\_\_\_\_  
\_\_\_\_\_

School/District Contact Person: \_\_\_\_\_

School/District Contact Person Email: \_\_\_\_\_

School Telephone: \_\_\_\_\_

School District Name: \_\_\_\_\_

**Fee @ \$50/student for LISEF's Broadcom MASTERS Middle School Fair**

MS: Number of Registered **Students** \_\_\_\_\_ @ \$50/student \_\_\_\_\_

Total Fee \$ \_\_\_\_\_

The following items must be **received** by Friday, **March 6, 2020**:

- One copy of this form
- One copy of all pages of the LISEF INVOICE
- **CHECK** (full payment) made out to LI SCIENCE and ENGINEERING FAIR, INC

**SEND TO: L. I. Science and Engineering Fair, Inc.  
998 Old Country Road STE C PMB 164  
Plainview, NY 11803**

*School Districts that do not send checks or BOCES Forms by Friday, March 6, 2020 will be ineligible for LISEF's Broadcom MASTERS Middle School Fair 2020.*



**LISEF**

**LISEF MS Fair 2020 BOCES PARTICIPATION FORM**

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School Year: 2019 - 2020

School Name: \_\_\_\_\_

School Address: \_\_\_\_\_  
\_\_\_\_\_

School/District Contact Person: \_\_\_\_\_

School/District Contact Person Email: \_\_\_\_\_

School Telephone: \_\_\_\_\_

School District Name: \_\_\_\_\_

**Fee @ \$55/student for LISEF's Broadcom MASTERS Middle School Fair**

MS: Number of Registered Students \_\_\_\_\_ @ \$55/student \_\_\_\_\_

Total Fee \$ \_\_\_\_\_

Superintendent Signature \_\_\_\_\_

Date \_\_\_\_\_

**Eastern Suffolk BOCES will bill the school district for the Total Fee, which is inclusive of their administrative costs. The Total LISEF Fees will be eligible for BOCES aid, at the district aid ratio.**

The following items must be **received** by Friday, **March 6, 2020**:

- Two copies of this form
- One copy of the BOCES Invoice with names included

**SEND TO: L. I. Science and Engineering Fair, Inc.  
998 Old Country Road STE C PMB 164  
Plainview, NY 11803**

*School Districts that do not send checks or BOCES Forms by Friday, March 6, 2020 will be ineligible for LISEF's Broadcom MASTERS Middle School Fair 2020.*

**School Districts that do not belong to the Eastern Suffolk BOCES District must file a Cross Contract with their local BOCES district.** To obtain information about the Cross Contract form and/or copies of the Cross Contract form, contact your local BOCES district. One copy of the Cross Contract Form must be mailed directly to your local BOCES district. **Do not mail cross contracts to LISEF, Inc.** If Eastern Suffolk BOCES does not receive the Cross Contract in a timely manner, you must pay directly.

**LONG ISLAND SCIENCE & ENGINEERING FAIR, Inc.**



**LISEF**

**MS BROADCOM MASTERS MEDIA RELEASE FORM**

*Middle School students and adults must submit media release forms via e-mail to [msfair@lisef.org](mailto:msfair@lisef.org), following the instructions on the MS Guidelines. Adults should enter the word ADULT in the Project Code designation.*

<b>Participant's Name</b> <i>(Please Print)</i>	<b>Project Code</b>
<b>School</b>	

**PARENTS/ADULTS- PLEASE READ THE FOLLOWING IN ITS ENTIRETY BEFORE YOU SIGN:**

**No guests/observers (this includes but is not limited to school administrators, mentors, classmates, relatives, and or friends) are permitted inside any presentation rooms, or the awards ceremony held at the Crest Hollow Country Club the day of LISEF, LISEF JV, or Broadcom MASTERS. If guests/observers come the day of the fairs, they will be asked to leave the building.**

I/We, the parents and/or guardian of the above named participant, agree that the said participant and participant's project may be photographed, filmed, or taped and that LISEF, Inc. may use such media and/or the participant's name and project description in connection with LISEF and the promotion of LISEF, Inc. and that we will not make any claim for invasion of privacy or any other legal right in connection with such uses by LISEF, Inc.

As an accompanying adult, I agree that LISEF, Inc. may use any media that contains my photograph in connection with LISEF and the promotion of LISEF, Inc. and that I will not make any claim for invasion of privacy or any other legal right in connection with such uses by LISEF, Inc.

Adult or Parents and/or Guardian Name \_\_\_\_\_  
*(Please Print)*

Adult or Parents and/or Guardian Signature \_\_\_\_\_

Date \_\_\_\_\_

- **NEW:** The signed MS Broadcom MASTERS Media Release Forms must be emailed to: [msfair@lisef.org](mailto:msfair@lisef.org) by **Friday, March 6, 2020.**
- **NEW:** MS School Liaisons should send **all** LISEF Media Release forms as a **single file**, the subject line should be "MS Media Release Forms / Name of School."



**LISEF**

**2020 LISEF MS Research Fair Verification Form**

<b>School District</b>	
Superintendent of Schools	
<b>School Name</b>	
School Principal Name	
School Street Address	
Town, State & Zip	
<b>School Liaison Name</b>	
School Liaison Telephone	School Liaison e-mail
Adult Sponsor Name	

***We certify that the projects listed on this form are in compliance with all LISEF and ISEF Guidelines and all federal and state laws and regulations and that all appropriate SRC/IRB reviews and approvals have been obtained.***

Liaison Signature	Principal Signature
Date	Date

- **NEW:** Submit this form via e-mail by Friday, March 6, 2020 to [msfair@lisef.org](mailto:msfair@lisef.org); one Verification Form is required for each school.
- **NEW:** School Liaisons should send the 2020 LISEF MS Research Fair Verification Form as a **single file**, the subject line should be “2020 LISEF MS Research Fair Verification Form / Name of School.”

Names of Judges:

1-4 projects: \_\_\_\_\_

5-8 projects: \_\_\_\_\_

9-10 Projects: \_\_\_\_\_

**Maximum number of projects for 2020 is 10**

## LONG ISLAND SCIENCE & ENGINEERING FAIR, Inc.

<b>Title of Project 1</b>	<b>Title of Project 2</b>
<b>Name(s) 1</b>	<b>Name(s) 2</b>
As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>	As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>
<b>Title of Project 3</b>	<b>Title of Project 4</b>
<b>Name(s) 3</b>	<b>Name(s) 4</b>
As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>	As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>
<b>Title of Project 5</b>	<b>Title of Project 6</b>
<b>Name(s) 5</b>	<b>Name(s) 6</b>
As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>	As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>
<b>Title of Project 7</b>	<b>Title of Project 8</b>
<b>Name(s) 7</b>	<b>Name(s) 8</b>
As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>	As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>
<b>Title of Project 9</b>	<b>Title of Project 10</b>
<b>Name(s) 9</b>	<b>Name(s) 10</b>
As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>	As a part of this Research Project, the student(s) directly handled, manipulated, or interacted with (Check all that apply): <i>Human Subjects</i> <input type="checkbox"/> <i>Vertebrate Animals</i> <input type="checkbox"/> <i>Potentially Hazardous Biological Agents:</i> <i>Microorganisms</i> <input type="checkbox"/> <i>rDNA</i> <input type="checkbox"/> <i>tissue</i> <input type="checkbox"/>

**Maximum number of projects for 2020 is 10**