

Student Application Checklist

HERITAGE YOUTH RESEARCHER SUMMER PROGRAM

It is important to complete the following steps when applying for the Heritage Youth Researcher Summer Program.

Complete all pages of the HYRS Student Application Form.

Submit an essay as described in the application.

Have your principal or assistant principal verify that you have at least an 85% average in each of pure math 20, biology 20, and one other Grade 11 science. *(Please do not submit transcripts or include actual grades).*

Have a parent or legal guardian endorse and sign your application form.

Arrange for TWO science teachers, or one science teacher and one math teacher, as well as your school's principal or assistant principal to be your referees. Teachers need to use the blank teacher reference forms that are included in the application package and return them to you in sealed envelopes. There is also a form for your principal or assistant principal to complete. The principal's form should also be sealed in an envelope and returned to you. Please include these reference forms in the sealed envelopes when you submit your application.

Arrange for one character reference from an adult outside of your high school who has known you for at least one year. A blank external reference form is included in the application package. Please ask your external reference to return the completed form to you in a sealed envelope. Please include this reference form in the sealed envelope when you submit your application.

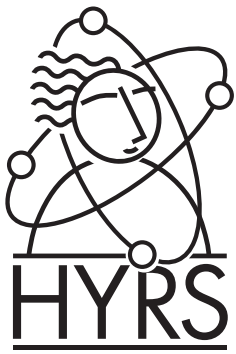
For students living outside Calgary or Edmonton who are unable to arrange their own accommodation, please fill out the appropriate area on this application form.

Mail your application to the address below.
Applications and references must be postmarked by Friday, April 2, 2010 to be considered. Applications that are faxed or e-mailed will NOT be accepted.

Mail or courier your application to:

Alberta Innovates - Health Solutions

HYRS Program
1500, 10104 - 103 Avenue
Edmonton, Alberta
T5J 4A7



January 6, 2010

To: Students

From: Nancy Whelan, HYRS Program Manager

**RE: Heritage Youth Researcher Summer Program —
University of Alberta: July 6 to August 17, 2010
University of Calgary: July 7 to August 18, 2010
University of Lethbridge: July 8 to August 19, 2010**

HYRS Email:

hyrs@ahfmr.ab.ca

Phone:

1-877-423-5727

HYRS web site:

www.ahfmr.ab.ca/HYRS/

Alberta Innovates – Health Solutions (formerly AHFMR) invites exceptional Grade 11 students in Alberta to apply for the Heritage Youth Researcher Summer Program (HYRS). The program is designed to give students from around the province first-hand biomedical and health research experience at a university campus, and introduce them to the many educational and career options available in this field. Students work on health research projects in a variety of laboratories of researchers who are on Faculty at the University of Alberta, the University of Calgary, and the University of Lethbridge.

Students will be supervised by a faculty member or by a member of their research team. Research projects could be in cardiology, cell biology, genetics, biomedical engineering, population health, epidemiology, or a host of other health research areas.

Applicants require at least an 85% standing in each of pure math 20, biology 20, and one other Grade 11 science class, the minimum requirement to work in a university laboratory. We do not require the submission of transcripts or actual marks. We do require a form as well as a signature from the school’s principal or assistant principal verifying that the student has at least an 85% average in each of pure math 20, biology 20, and one other Grade 11 science.

Academic achievement is important but so are accomplishments in other areas. An essay demonstrating interest in biomedical and health research is required. Each student must have two reference forms completed by a maximum of two of their science teachers, or one math and one science teacher, and one character reference from an adult outside the school who is not a relative. This external reference could be someone the student has done volunteer work for, a supervisor from a previous job, a girl-guide or scout leader, a community sports coach, etc. Successful applicants must fulfill immunization requirement of the university and sign a contract of conduct. Successful candidates must also commit to presenting their HYRS experiences to classes at their high school in the year following the program.

During the HYRS program, students will meet once a week for a variety of activities to broaden and enhance their research experience. Activities include safety and introductory sessions, tours of campus research laboratories, and discussions with guest speakers about their careers in research. Students are also required to prepare and present a research poster about their project. Students will be compensated with a stipend for the six-week period. Compensation is based on a seven-hour workday however, research laboratories often work on schedules required by the projects they are engaged in and HYRS participants are expected to participate accordingly.

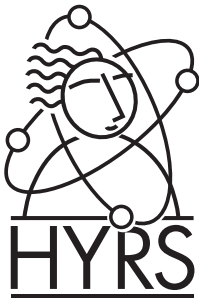
To be included in the competition, students must forward a completed application form, and references to the address indicated on the application form postmarked by Friday, April 2, 2010. Applications that are faxed or e-mailed will NOT be accepted. Applicants will be informed of the selection committee’s decisions by the end of May.

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The adjudication committee will do its best to ensure a fair representation across the province. This might mean, for example, that only one student per school is selected.

Successful applicants with a 780 area code will attend the U of A HYRS program. Successful applicants with a 403 area code will attend the U of C program. Only students attending school in Lethbridge are eligible for the HYRS program at the University of Lethbridge. If students from outside Calgary and Edmonton do not have family or friends to stay with during the program and need assistance in obtaining affordable housing, please indicate this in the appropriate area on the application form. Students are responsible for meals, travel and entertainment.

For more information, see our website at www.ahfmr.ab.ca/HYRS/, or contact Nancy Whelan at 1-877-423-5727, ext. 260 or e-mail hyrs@ahfmr.ab.ca.



Student Application

Deadline: Friday, April 2, 2010

HERITAGE YOUTH RESEARCHER SUMMER (HYRS) PROGRAM

PERSONAL INFORMATION (PLEASE PRINT IN INK)

Are you a Grade 11 student? Yes No

Do you live in Alberta? Yes No

Male or Female

Can you legally work in Canada? Yes No
(do you have a social insurance number?)

Last Name _____

First Name (name used) _____

Middle Initial _____

Address _____

City/town _____

Postal Code _____

Telephone () _____

E-mail _____

School _____

School Address _____

School Postal Code _____

School Telephone () _____

Name of school principal _____

Name of your two teacher references _____

and _____

Name of reference from your community _____

ACADEMIC BACKGROUND

Students must have at least an 85% in each of the subjects below and this must be verified by your school principal. You must have completed or be currently enrolled in the courses marked with an asterisk. In addition, you need **either** Chemistry 20 or Physics 20. Please do not provide transcripts or actual marks. **Check** if you have completed or are currently enrolled in:

Math 20* (pure)

Biology 20*

Physics 20

Chemistry 20

To the Principal: Please read the covering letter about the HYRS Program. We do not require transcripts or actual marks. Please verify the applicant has a standing of 85% or higher in each of the checked subjects above. Also, please complete the enclosed reference form.

HYRS 2010

Applicant's Name _____

Principal's Printed Name _____

Signature _____

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If you haven't completed one of the Grade 11 courses marked with an asterisk, please provide an explanation.

Are you currently enrolled in or have you completed any of the following Grade 12 courses?

Please do not provide transcripts or actual marks.

Math 30 (pure) Physics 30 Chemistry 30 Biology 30

What are your current interests, hobbies, activities and special abilities?

What high school and/or community groups are you currently involved with?

YOUR INTEREST IN SCIENCE AND RESEARCH

At present, what is your career goal, and why does it interest you?

Without biomedical research, many of our life-saving advances in medicine and health would not exist. Key to these advances is the use of animals in biomedical research according to the strictest ethical guidelines. For more information please go to the web site of the Canadian Council on Animal Care, which is the national body that sets guidelines for the experimental use of animals in academic institutions: <http://www.ccac.ca/english/welcome.htm> As participants in university research projects, HYRS students may be asked to participate in research involving animals.

Are you willing to work in a research lab that uses animals in research? Yes No

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ESSAY

Attach an essay (maximum two pages, one side only of each page, 12 point font, typewritten, double-spaced) to this application form. Please address the following points. Remember, we want to hear your thoughts and ideas.

1. Tell us about a particular area of health research that interests you and why.
2. Tell us why you want to be part of the HYRS Program.

HYRS AMBASSADORSHIP ROLE

One of the expectations of HYRS participants is that they will relate their research experiences to their peers. HYRS participants are required, upon their return to their high schools for their Grade 12 school year, to give at least one presentation about their summer research experience to a younger science class.

Are you able to commit to giving a presentation to a science class about your HYRS experience? Yes No

IMMUNIZATIONS

All participants in the HYRS Program should have up-to-date immunizations. Additionally, participants may be asked to obtain further immunization shots, for example Tetanus, depending on the type of research they may be working on. If you are not immunized and are not willing to obtain up-to-date immunization or comply with university regulations for additional immunizations, you can only work with those researchers who do not operate wet laboratories if available.

Do you have up-to-date immunizations? Yes No

LIVING ARRANGEMENTS

This section is for students from outside Edmonton, Calgary, and Lethbridge only.

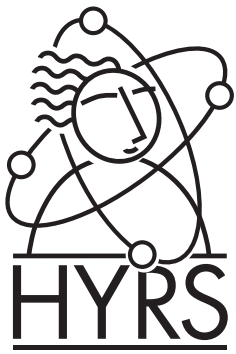
1. Students may make their own living arrangements or stay in residence on campus which will cost each student approximately \$1,000. Please indicate which living arrangement you will be making if selected to participate in the program:
 - a) I will make my own living arrangements
 - b) I wish to live in residence on campus (arranged by HYRS staff)
2. If you checked b then limited bursaries are available to assist with residence costs based on need. If you wish further information, please check the following box and if selected to participate in the program, we will contact you.

Signature(s) of Parent(s) _____ Date _____

Signature(s) of Parent(s) _____ Date _____

Return the completed form and references to the address on the right by Friday, April 2, 2010. Faxes and e-mails will not be accepted.

Alberta Innovates – Health Solutions
HYRS Program
1500, 10104 – 103 Avenue
Edmonton, Alberta
T5J 4A7



January 6, 2010

To: External Referees

From: Nancy Whelan, HYRS Program Manager

**RE: Heritage Youth Researcher Summer Program —
University of Alberta: July 6 to August 17, 2010
University of Calgary: July 7 to August 18, 2010
University of Lethbridge: July 8 to August 19, 2010**

HYRS Email:

hyrs@ahfmr.ab.ca

Phone:

1-877-423-5727

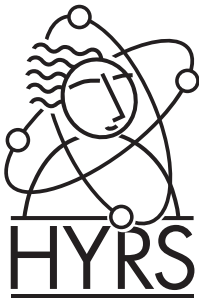
HYRS web site:

www.ahfmr.ab.ca/HYRS/

Alberta Innovates – Health Solutions (formerly AHFMR) is pleased to offer a summer research program to exceptional Grade 11 students in Alberta. The Heritage Youth Researcher Summer (HYRS) program is designed to give Grade 11 students from around the province first-hand experience of biomedical and health research, and introduce them to research career opportunities. Students will work on health research projects in the laboratories of participating researchers who are on faculty at the University of Alberta, the University of Calgary, and the University of Lethbridge. Students will be supervised by the faculty member or by a member of their research team.

HYRS will be placing students in a position of trust with the university researchers, some of whom work with hazardous materials. The HYRS participants will be working on projects that will be used in the scientists' ongoing research. Therefore, the HYRS participants' work will have an effect on the scientists' professional reputations. HYRS participants will also be working, and in some cases living in dormitories, with a diverse group of people. To ensure the success of the HYRS program and the personal well-being of the participants, the organizers must select not only the most accomplished applicants, but those who will conduct themselves in a mature, responsible manner at all times. Your candid remarks are much appreciated and will be used in an appropriate and confidential manner to help us select HYRS participants. External referees cannot be related to the applicant. The deadline for applications is Friday, April 2, 2010.

For more information, see our website at www.ahfmr.ab.ca/HYRS/, or contact Nancy Whelan at 1-877-423-5727, ext. 260 or e-mail hyrs@ahfmr.ab.ca.



External Reference

Deadline for receipt of applications: Friday, April 2, 2010

HERITAGE YOUTH RESEARCHER SUMMER PROGRAM

NOTE: PLEASE USE THIS FORM ONLY. Any accompanying letters or material on the back of this form will be disregarded. Please place completed form in a sealed envelope and return to student.

Name of Student _____

Name of Referee _____ Profession _____

Telephone () _____ E-mail _____

Relationship to Student _____ Length of Relationship _____

Describe this applicant's activities with your organization? (Is this applicant a team leader, a volunteer on a regular basis, an employee, etc.)

On a scale of one (weakest) to five (best) please answer the following:

How does this applicant work with others within your organization?

- One Two Three Four Five

How does this applicant work with the public?

- One Two Three Four Five

How would you rank this applicant's ability to ask appropriate questions in order to clarify responsibility or approach?

- One Two Three Four Five

How would you rank this applicant's initiative?

- One Two Three Four Five

How well does this applicant respond to directions?

- One Two Three Four Five

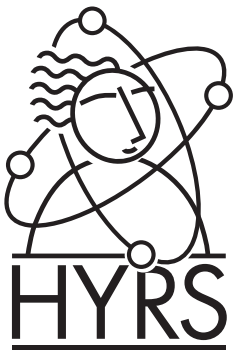
Would you trust this individual to work by themselves for a day?

- One Two Three Four Five

We would appreciate any additional information regarding the questions above or any other pertinent information that would assist us in evaluating this applicant.

Signature _____ Date _____

Please return the completed form in a sealed envelope to the applicant. The deadline for receipt of applications is Friday, April 2, 2010.

**HYRS Email:**

hyrs@ahfmr.ab.ca

Phone:

1-877-423-5727

HYRS web site:www.ahfmr.ab.ca/HYRS/

January 6, 2010

To: All High School Science Teachers and School Counselors/Career Advisors/
Principals/Assistant Principals

From: Nancy Whelan, HYRS Program Manager

**RE: Heritage Youth Researcher Summer Program —
University of Alberta: July 6 to August 17, 2010
University of Calgary: July 7 to August 18, 2010
University of Lethbridge: July 8 to August 19, 2010**

Alberta Innovates – Health Solutions (formerly AHFMR) is pleased to offer a summer research program to exceptional Grade 11 students in Alberta. The Heritage Youth Researcher Summer (HYRS) program is designed to give selected Grade 11 students from around the province first-hand experience of biomedical and health research, and introduce them to research career opportunities. We invite you to pass on the news about HYRS to your students and encourage them to apply.

Applicants require at least an 85% standing in each of pure math 20, biology 20, and one other Grade 11 science class, the minimum requirement to work in a university laboratory. We do not require the submission of transcripts or actual marks. We do require a signature from the school's principal or assistant principal verifying that the student has at least an 85% average in each of pure math 20, biology 20, and one other grade 11 science. We also require your school's principal to fill out a form included in this package.

Each student must have two reference forms completed by two of their science teachers, or one math and one science teacher, and one reference form completed by an adult outside their school who has known the student for at least one year. To ensure equal consideration of all references, only two teacher references per student and one principal form will be accepted and the information must be provided on the enclosed reference forms. It is important for referees to return their completed reference forms to the students in sealed envelopes. Principals are asked to complete the Principal Reference Form even if they are not personally acquainted with the student. If principals are not personally acquainted with the student, they are asked to consult the appropriate staff members. Please note that the HYRS program will not accept applications from Grade 10 and 12 students.

HYRS is not just a laboratory work experience. It is a well-rounded program focused on Grade 11 students as they have a year remaining of high school in which to consider their future university studies in light of their HYRS experience. Only one (in rare instances, two) student will be chosen from each school in order to allow students from all over the province to participate.

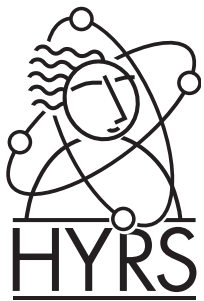
Because the students will be working alongside university researchers who are volunteering their time to be mentors, we want to ensure that the students selected are not only bright, but curious about science, willing to ask questions, and show a genuine interest in the possibility of research as an educational and career direction.

During the program, HYRS participants will meet once a week for a variety of activities to broaden and enhance their research experience. Activities include safety and introductory training sessions, tours of campus and other research facilities, and discussions with guest speakers about their careers in research. Participants are also required to prepare and present a research poster about their project. Successful applicants must commit to giving a presentation about their HYRS experiences to a science class at their high school in the next school year following the program.

HYRS participants will invite their referring science teachers to participate in a Teachers' Day held at the end of the program. Teachers' Day offers science teachers the opportunity to meet with fellow teachers, top biomedical and health researchers, and university personnel, and to learn about leading edge research.

The deadline for receipt of applications and all references is Friday, April 2, 2010. Students with the 403 area code will be eligible for the program in Calgary and students with the 780 area code will be eligible for the program in Edmonton. Only students who go to school in Lethbridge will be eligible for the HYRS program at the University of Lethbridge. HYRS positions are very limited in number—approximately 45 in total for the province—so we suggest that you encourage students who are exemplary achievers. Applicants must demonstrate strong evidence of their interest and ability in sciences and mathematics and be sincerely interested in discovering more about a career in research.

For more information, see our website at www.ahfmr.ab.ca/HYRS/, or contact Nancy Whelan at 1-877-423-5727, ext. 260 or e-mail hyrs@ahfmr.ab.ca.



Teacher Reference

Deadline: Friday, April 2, 2010

HERITAGE YOUTH RESEARCHER SUMMER PROGRAM

NOTE: PLEASE FILL OUT THIS FORM ONLY. Any accompanying letters or material on the back of this form will be disregarded. Please give to student in a sealed envelope.

Name of Student _____

Name of Teacher _____ E-mail of Teacher _____

Address of Teacher _____ Postal Code _____

Name of School _____ School Address _____

Postal Code _____ School Telephone () _____

Please assess, based on your knowledge of the student, each of the following characteristics:

	Top 5%	10%	20%	50%	<50%
Flexibility and ability to adapt to new situations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to work independently	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to work cooperatively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Curiosity and interest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maturity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communications skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What courses have you taught this student?

Please comment on this student's initiative in approaching problems and situations. An example would be useful.

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Teacher reference continued...

Please comment on the suitability of this student for this research program with respect to their:

Strengths

Weaknesses

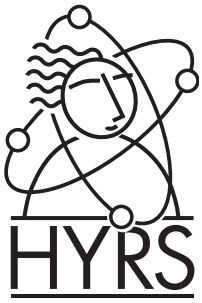
In what way do you think this student would benefit from this research experience?

We would appreciate any additional information regarding the questions above or any other pertinent information that would assist us in evaluating this student.

Signature

Date

**Please return the completed form in a sealed envelope to the applicant.
The deadline for receipt of the student's application is Friday, April 2, 2010.**



Teacher Reference

Deadline: Friday, April 2, 2010

HERITAGE YOUTH RESEARCHER SUMMER PROGRAM

NOTE: PLEASE FILL OUT THIS FORM ONLY. Any accompanying letters or material on the back of this form will be disregarded. Please give to student in a sealed envelope.

Name of Student _____

Name of Teacher _____ E-mail of Teacher _____

Address of Teacher _____ Postal Code _____

Name of School _____ School Address _____

Postal Code _____ School Telephone () _____

Please assess, based on your knowledge of the student, each of the following characteristics:

	Top 5%	10%	20%	50%	<50%
Flexibility and ability to adapt to new situations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to work independently	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to work cooperatively	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Curiosity and interest	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Maturity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communications skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What courses have you taught this student?

Please comment on this student's initiative in approaching problems and situations. An example would be useful.

continued on page 13 ►

Teacher reference continued...

Please comment on the suitability of this student for this research program with respect to their:

Strengths

Weaknesses

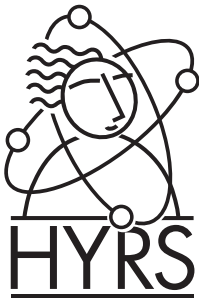
In what way do you think this student would benefit from this research experience?

We would appreciate any additional information regarding the questions above or any other pertinent information that would assist us in evaluating this student.

Signature

Date

**Please return the completed form in a sealed envelope to the applicant.
The deadline for receipt of the student's application is Friday, April 2, 2010.**



Principal/Assistant Principal Reference

Deadline: Friday, April 2, 2010

HERITAGE YOUTH RESEARCHER SUMMER PROGRAM

NOTE: PLEASE FILL OUT THIS FORM ONLY. Any accompanying letters or material on the back of this form will be disregarded. Please give to student in a sealed envelope.

Name of Student _____

Name of Principal/Assistant Principal _____

E-mail of Principal/Assistant Principal _____

Name of School _____ School Telephone () _____

Are you personally acquainted with this student? (If not, please consult with an appropriate staff member before completing the form).

Would you rank this student as one of your school's top students when considering the following attributes: curiosity, initiative, ability to work with minimal supervision, reliability, academic achievement?

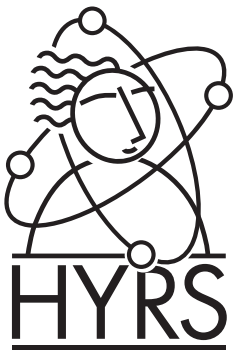
Please assess, based on your knowledge of the student, each of the following characteristics:

	Top 5%	10%	20%	50%	<50%
Curiosity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Initiative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ability to work with minimal supervision	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Academic achievement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

We would appreciate any additional information regarding the questions above or any other pertinent information that would assist us in evaluating this student.

Signature _____ Date _____

Please return the completed form in a sealed envelope to the applicant. The deadline for receipt of applications is Friday, April 2, 2010.

**HYRS Email:**

hyrs@ahfmr.ab.ca

Phone:

1-877-423-5727

HYRS web site:

www.ahfmr.ab.ca/HYRS/

The HYRS participant and his/her parent/guardian understand and acknowledge the following:

1. The University of Alberta/Calgary/Lethbridge and/or the Alberta Innovates – Health Solutions (AIHS), the parent organization for the Heritage Youth Researcher Summer (HYRS) Program, does not insure personal vehicles or property for employees or participants in any of their programs. Personal property losses would have to be covered by your Personal Home Owners insurance policy. Participants who may be driving privately owned vehicles are required to ensure that the vehicle owner carries adequate insurance on the vehicle and for the participants to drive.
2. In my (daughter's/son's) capacities as a paid employee with the AIHS's HYRS Program at the University of Alberta/University of Calgary/University of Lethbridge, that my (daughter/son) will be covered by the Workers' Compensation Board in the event of a work related injury where it applies under WCB coverage.
3. No medical/health insurance will be provided by AIHS's HYRS Program, or the participating university. In the event of a medical/health problem, AIHS's HYRS Program and the participating university will not accept responsibility for any costs associated with a medical/health problem nor will they pay for any medical/health expenses, which may be incurred by the participant.

I understand that the HYRS participants will be working in research environments with people trained in first aid and safety. Therefore, participants must have up-to-date immunizations to protect their health. The participants will also take part in Biosafety and WHMIS safety sessions required for laboratory research. I also understand that AIHS's HYRS Program and University staff are not responsible for any injury, loss, or damage of any kind sustained by participants in the HYRS Program.

I acknowledge that I have read and understood this agreement. I understand and accept that any information collected about my daughter/son will be protected and used by AIHS in compliance with Alberta's Freedom of Information and Protection of Privacy Act. I understand, appreciate, and accept the risks associated with my daughter's/son's participation in the HYRS Program.

I also understand that funding for the HYRS Program comes from AIHS, which is accountable to the people of Alberta. Therefore the participant can be named and photographed and filmed for and by the media and AIHS to promote and publicize the HYRS Program and AIHS, in printed and electronic material. I also understand the importance of acknowledging Alberta Innovates – Health Solutions (AIHS) whenever possible as the organization responsible for the HYRS Program.

I also accept that AIHS will be tracking all HYRS applicants over time to follow their education and careers and to gather information to continually evaluate the HYRS Program. This will necessitate HYRS applicants replying to future AIHS correspondence and informing AIHS about new addresses and changes of name. Your signature on this form indicates your consent to receive AIHS correspondence relating to HYRS Program evaluations as well as other AIHS program and event notices.

As the parent/guardian for the participant, I consent to my daughter's/son's participation in the HYRS Program.

Signed this _____ day of _____, 2010, at _____, Alberta.

Signature of Student _____

Signature of Witness _____

Signature(s) of Parent(s) or Guardian(s) _____

Signature of Witness _____