



**Canadian Broiler Hatching Egg Producers' Association**  
**Association canadienne des producteurs d'oeufs d'incubation de poulet à chair**

## **Program No. 1 - CBHEPA Broiler Breeder Research Grant**

Through this program CBHEPA will provide research grants for one or two University students (3<sup>rd</sup> year or graduate students). These research grants will provide an opportunity for a student to study and perform a short-term broiler breeder research project at a University or research facility in Canada. The cost associated to the presentation of the project results to an international congress are eligible.

- ✓ Detailed description of the project
- ✓ Duration and location of the project
- ✓ Potential benefits to the broiler hatching egg industry
- ✓ Reason for CBHEPA to support your project
- ✓ Budget (including CBHEPA's contribution)

The selected participant will be asked to prepare a detailed report and present it at the CHEP Annual Meeting in March 2020.

### **Topics for the 2019 Research Project**

**Ammonia has been designated as a top priority issue by the CHEP Research Committee.**

#### **1. Production-based Research**

- a. Methods to increase fertility and number of saleable chicks
  - Differences in fertility and paid hatch
  - When is it most beneficial to add spiking roosters?
- b. Egg size
  - Effect of maximum protein on egg size
  - Causes of egg weight differences

#### **2. Breeder Welfare**

- a. Ammonia control
  - Developing more accurate methods to measure ammonia on-farm, and validating existing ammonia measurement equipment (such as the ammonia meters used by auditors)
  - Establishing baseline ammonia levels on the farm, and once a consistent methodology is established, have CHEP compile national data to inform decisions going forward
  - Validating benchmarks (such as those referenced in the code, or those determined as a result of on-farm baseline data), including the study of the impacts of different levels of ammonia concentration on the health and well-being of birds and humans in order to determine appropriate level(s) of ammonia to include in the animal care program as maximum thresholds depending on climate and temperature
  - Cost-effective methods to control ammonia

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### Topics for the 2019 Research Project (cont'd.)

- b. Density
  - c. Euthanasia
    - Methods for birds >3kg, including low atmospheric pressure stunning (LAPS)
      - Is LAPS practical for on farm application?
    - Efficient and quick way to euthanize breeder flocks in an emergency situation
  - d. Aggression
    - Feed energy and male aggression
    - Research linking specific genetic traits with male to female aggression
  - e. Early mortality of breeder hens (*E.coli*, staphylococci)
    - *E.coli* and staphylococci more likely to post peak mortality association
  - f. Physical alterations
    - Toe-trimming, beak trimming: ideal methods and timing for procedures
    - Cost-effective, practical management practices that can eliminate physical alterations
  - g. Transporting newly hatched chicks
    - Length of time that newly hatched chicks are sustained by the yolk sac
    - Effectiveness of hydration/nutrient products used prior to and during transit
  - h. Effects of vaccination programs on breeder welfare
    - Current status
    - Maximum thresholds – how much is too much?
3. **Environmental Research**
- a. Effects of temperature control on egg handling and holding, and egg transfer vehicles, including egg sweating and links to rots after eggs leave the farm.
4. **Poultry Health and Disease**
- a. Variant bronchitis-impact on breeder production and fertility
  - b. White chick syndrome
  - c. More efficient vaccination programs
  - d. Effect of probiotics
5. **Alternatives to antimicrobials**
6. **Control of Foodborne Pathogens**
- a. Control of *Salmonella* by vaccination (methods and effectiveness)
    - Newer *Salmonella* vaccinations or supplemental adjuvants to improve vaccine efficacy
  - b. Sources of infection
    - What is transferred to the chick? How does egg incubation affect *Salmonella* cells?
  - c. Possible barn differences, what type of construction, material, insulation, volume of air, angle to the sun (infrared radiation)
  - d. Prevalence
  - e. Population density
  - f. Control of *Campylobacter jejuni*
  - g. On-farm strategies to reduce and prevent *Salmonella* while birds are in production
    - Reduce/prevent *Salmonella* via competitive exclusion (probiotics and antagonistic bacterial species for controlling foodborne pathogens)

This program is open to students studying poultry science in Canada.

***Application Form Attached***



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## **Program No. 1 - CBHEPA Broiler Breeder Research Grant**

**This program is open to students studying poultry science in Canada**  
*Applicants interested in participating in this program should submit their application by*  
***January 31, 2019.***

Name of Applicant: \_\_\_\_\_

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

City: \_\_\_\_\_ Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Cellular: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

University: \_\_\_\_\_ Major: \_\_\_\_\_

Please provide us with a brief outline of your research: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Please forward your completed application and submission to the  
CBHEPA offices at the fax number or address listed below.  
We look forward to receiving your application.  
Applications will be reviewed at the March 19, 2019 CBHEPA Meeting**

**Canadian Broiler Hatching Egg Producers' Association**

21 Florence Street, Ottawa, Ontario K2P 0W6  
or fax it to (613) 232-5241 or email us at info@chep-poic.ca



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## **Program No. 2 - CBHEPA Student Exchange Program**

The CBHEPA student exchange program was initiated to help Canadians gain a better understanding of the challenges and opportunities available to the hatching egg industry. It will allow the exchange of high school students of Canadian broiler hatching egg producers from different regions to experience a new environment. The exchange will involve two high school students who will stay at each other's home for a week or more. Travel costs will be paid by the Association. The selection of the first participant will be made at random from the applications received. The second participant will then be selected to match the age and interests of the first.

*Students interested in participating in this program should submit their application by January 31, 2019.*

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

Address: \_\_\_\_\_ City: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Interests: \_\_\_\_\_  
\_\_\_\_\_

**Please complete this applications.**  
**Forward to the CBHEPA offices at the fax number or address listed below.**  
**We look forward to receiving your application.**

**Applications will be reviewed at the CBHEPA Meeting on March 19, 2019**

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## **Program No. 3 - CBHEPA Young Farmer Program**

The Canadian Broiler Hatching Egg Producer Association has recently developed the "young farmer program". Through this program, the CBHEPA will be providing financial assistance to one young producer looking to acquire or broaden his/her knowledge of the hatching egg industry in other countries.

The applicant for this program should have less than 15 years experience in the hatching egg industry, or a young person who is working on the farm of a parent in the industry.

The 2019 program will be designed around the young farmers experience. The young farmers must be 18 years of age or older. Tours will be available at Cobb and Ross both located in the United States.

CBHEPA has accepted to provide a financial assistance of up to \$1,500 in order to cover Travel and accommodation costs. If a couple wishes to apply to this program and the application is approved, CBHEPA will cover the travel costs for only one of the participants.

**Applicants are asked to fill this form and to prepare a short written submission outlining their working experience, and the reasons they are seeking assistance from CBHEPA .**

Participants will be asked to share their knowledge and accomplishments of the program with CBHEPA members by preparing a written report and, eventually, presenting it to CHEP Directors.

*Applicants interested in participating in this program should submit their application by **January 31, 2019**.*

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

Address: \_\_\_\_\_ City: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Number of Years of experience in the broiler hatching egg farming: \_\_\_\_\_

Number of years you have been involved in the hatching egg industry: \_\_\_\_\_

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**Please complete this applications and include the requested documents.  
Forward to the CBHEPA offices at the fax number or address listed below.  
We look forward to receiving your application.**

**Applications will be reviewed at the CBHEPA Meeting on March 19, 2019**

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## **Program No. 4 - CBHEPA / Canadian Young Farmers' Forum 2019**

Established in 1997, it is CYFF's goal to assist young farmers with information while exchanging ideas that lead to progressive strategies to ensure farming success in Canada. Through networking with young farmers – like yourself – our organization's goal is to provide education, leadership training and capacity building for young agriculture producers of Canada.

Through CYFF's speakers and innovative workshops, our goal is to increase all participants' knowledge of the agriculture industry and provide positive tools to aid young farmers in successful farm management. Through the development of both national and provincial structures, participants' leadership skills are enhanced and prepare you to take a more active role in agriculture and rural organizations.

With increased opportunities for dialogue, networking and action planning amongst participants, organizations, and industry stakeholders, more effective programs and policies across the country will result. The industry will also benefit from the creation of a pool of skilled future leaders – like you – with an awareness of issues in Canadian agriculture and a proven commitment to developing collaborative, creative solutions.

The next CYFF conference is being held in Charlottetown, PEI from March 1 to 3, 2019. CBHEPA will be sponsoring one applicant to this event. The selection will be made from the outlined presented as to why this event would benefit your future in the agriculture industry. Sponsorship includes registration and transportation to and from the event.

***Young Farmers interested in participating in this program should submit their application by January 5, 2019.***

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

Address: \_\_\_\_\_ City: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Interests: \_\_\_\_\_

**Please complete this applications.**  
**Forward to the CBHEPA offices at the fax number or address listed below.**  
**We look forward to receiving your application.**

*Applications will be reviewed on January 10, 2019*

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