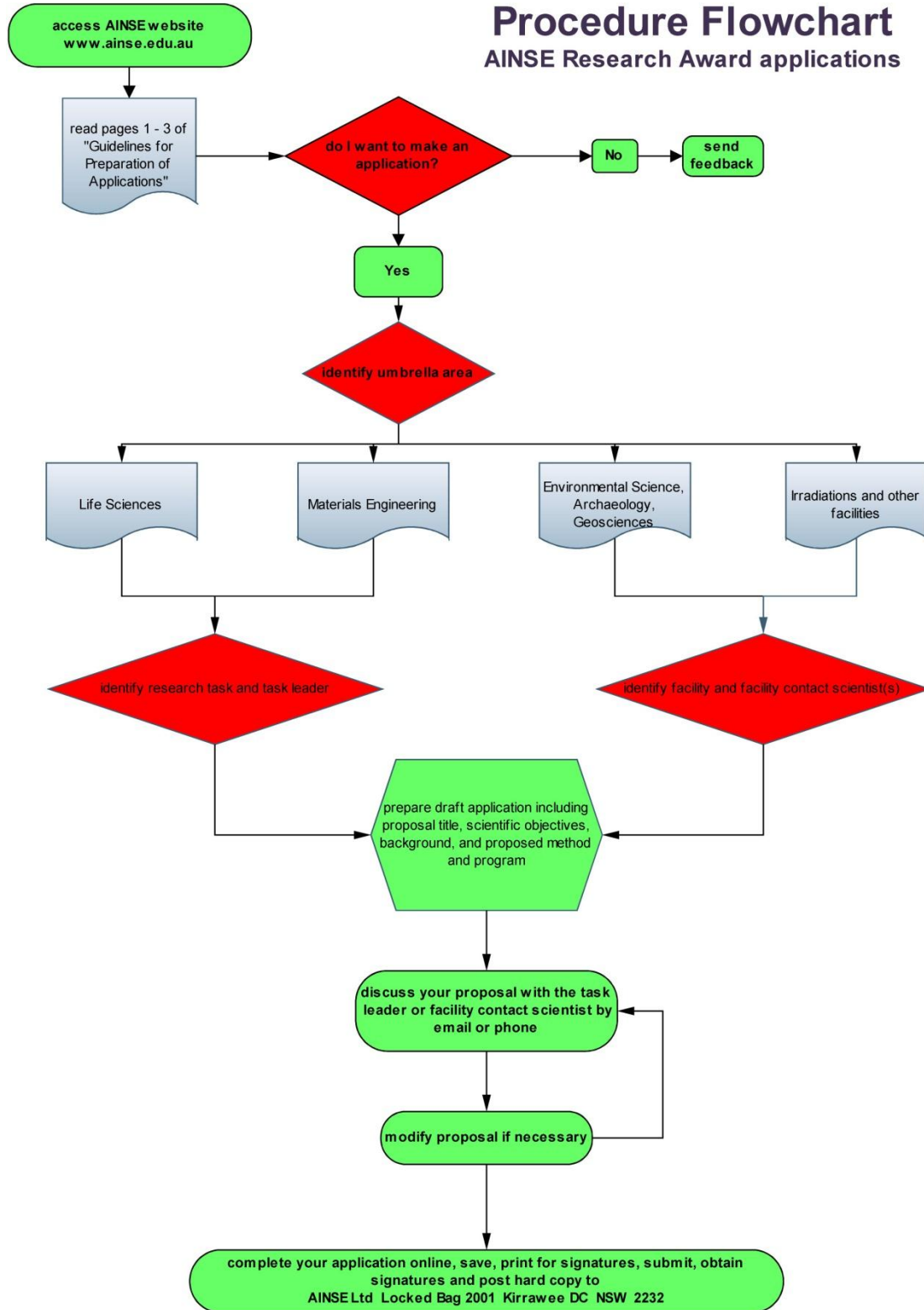


# 2012 AINSE Research Awards Guidelines

## Procedure Flowchart AINSE Research Award applications



**The AINSE Researchers' Guides identify the research tasks in Life Sciences and Materials Engineering. For Environmental Science, Archaeology, Geosciences, irradiations and other facilities, the Researchers' Guides list the facilities available and the research staff attached to them.**

### **Access to the Materials Engineering and Life Sciences**

Access to the Materials Engineering and Life Sciences facilities is for collaborative research only. Draft applications including scientific objectives, background, and proposed method and program must be provided to ANSTO research task leaders by 15 August.

**All other applicants must discuss their proposal with the relevant facility contact scientist(s) listed in the AINSE Researchers' Guides.**

### **Access to Neutron Scattering Instruments**

If you want to gain access to the OPAL neutron scattering instruments you must apply through ANSTO's Bragg Institute portal.

Go to [http://www.ansto.gov.au/research/bragg\\_institute/facilities](http://www.ansto.gov.au/research/bragg_institute/facilities) for more information.

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## ***THE PURPOSE OF AINSE RESEARCH AWARDS***

AINSE Ltd awards funding to support projects undertaken by its member institutions which have an identifiable focus on nuclear and nuclear-related applications and/or on the use of Australian Nuclear Science and Technology Organisation (ANSTO) facilities and expertise. These awards are made at the discretion of the AINSE Council, through its Executive Committee, after AINSE Specialist Committees have reviewed proposals submitted by member institutions.

While the average size of AINSE Research Awards which do not support a Research Fellow, generally \$10,000 to \$30,000, may seem small in the context of the major grant schemes, they provide for training and research experience on nuclear and related facilities for the widest possible body of researchers and their students. AINSE Research Awards are often the valuable initial support, which allows a researcher to build the research profile necessary for success at other major funding bodies.

AINSE Research Awards (this is a subset of AINSE Research Projects which do not support a Research Fellow)

- cover the costs associated with access to AINSE Supported Facilities (ASFs);
- contribute to the cost of travel and/or accommodation when the university researcher lives in a city different from that in which the facility is located;
- may contribute toward the cost of equipment and/or materials which are necessary for, but not precursors for the experiment at ANSTO.

Access to facilities is not guaranteed: equipment failure or other difficulties may arise which prevent the execution of the Award. AINSE does not accept any responsibility for the consequences of equipment becoming unavailable.

Research scientists and research students are encouraged to carry out appropriate parts of their projects at Lucas Heights. To this end laboratory and office accommodation and associated facilities

can be made available. Motel accommodation is available at Lucas Heights for researchers visiting from outside the Sydney-Wollongong area. AINSE is able to make bookings for travel and accommodation for the visiting researcher. Contact [Mrs Sandy O'Connor](#) for travel and accommodation requests.

Support for post-graduate research students may be offered under the nationally competitive AINSE Post-graduate Research Award scheme (applications open in March each year). Supervisors should apply now under the AINSE Research Awards scheme for access to AINSE-supported facilities likely to be required by their research students (including Honours students) in the first half of 2012.

AINSE Research Awards do not provide for salaries or stipends.

Funding for AINSE Research Awards are usually in the form of cash which is transferred to the university once the facility usage is confirmed.

Funding for AINSE Research Awards is made on a non-recurring annual basis, expiring at the end of the calendar year of the Award. Any unexpended funds revert unconditionally to AINSE at the end of the calendar year for which they are awarded. Requests may be made to carry over funds to the next calendar year if there is a satisfactory explanation for them not being used in the month indicated on the application form.

Funds received by way of an AINSE Research Award must be used for the purposes specified by AINSE, and any proposed re-allocation must be approved by AINSE, in writing, before such funds are committed.

You should discuss your proposal with your university/institution representative on the AINSE Council and advise him/her of the status of any applications for external funding associated with the project. AINSE Councillors for each member institution are listed on the [AINSE website](#).

## General information

The charges associated with access to AINSE supported facilities and services are reviewed and agreed by AINSE and ANSTO, or other ASF, each year. Where the use of AINSE-supported facilities is requested, you must discuss and agree on the proposed method and program with the appropriate contact scientist or research task scientist, as listed in the [AINSE Researchers' Guides](#).

The costs involved in the use of facilities will be paid to your university by AINSE when each grant is activated, up to the maximum amount allocated for that purpose in the grant.

Access to facilities is not guaranteed: equipment failure or other difficulties may arise which prevent the execution of the grant. AINSE does not accept any responsibility for the consequences of equipment being unavailable.

The take-up of AINSE Research Awards is reviewed twice each year by Specialist Committees, at the end May and at the end of October. Any unused amounts at the end of the stated month, in the year of the grant, may be re-allocated by AINSE.

If you are unable to use your AINSE Research Award in the month specified in your application you should, prior to this time, negotiate alternative dates with the facility contact scientist or research task scientist and inform AINSE of the change agreed.

## GUIDELINES FOR COMPLETING THE APPLICATION FORM

You must allow sufficient time to discuss your proposal with the relevant facility scientist or research task scientist. We recommend you send your draft application including scientific objectives, background, and proposed method and program to the contact or research task scientists for comment by 15 August.

These notes are intended to clarify the information you are required to submit and are presented in the same sequence as the application form. When you commence an on-line application please make a note of your application number at the start of the application and use the save button regularly.

Each application should be prepared by the chief investigator responsible for the project using the on-line form on AINSE's website.

Once you have completed your application you should click on the 'print' tab, save your application to your computer as a pdf file and print a copy. Click on the 'submit' tab and follow the instructions. Sign the printed copy of your application and have your AINSE Councillor and an authorised representative of your Research Office countersign it. **The application is only formally submitted once AINSE has received the original copy signed by an authorised representative of your institution's research office.**

The signed original of the completed application form must reach AINSE by the closing date of 15 September. Applications received after this date will not be considered in the present series.

AINSE will advise member universities and institutions of the awards made in the current series of AINSE Research Projects before 31 December.

### Applicant PIN

To access the on-line application form you need a PIN. This reduces data entry requirements, ensures consistency in data collection, and maintains privacy. However, it also means that your details currently held by AINSE must be correct. Please [login](#) and update your details. If you have a problem with your PIN and password combination please email [ainse@ainse.edu.au](mailto:ainse@ainse.edu.au)

If you do not have a PIN, please use the [Request PIN](#) selection and complete your personal details. All researchers and research students must use their university or institution email address. PIN requests with other email accounts (gmail, hotmail) will **not** be approved. You will receive an e-mail acknowledgment with an initial password.

Please note that a PIN will only be issued to the Chief Investigator who will complete and submit the application. The Chief Investigator must be a member of staff at an AINSE member organisation. All correspondence concerning funding of an AINSE Research Project will be directed to the Chief Investigator.

## Select “Start New Application”

### Create New Application

#### Application Title

Please enter a concise title that best describes the project is required. Use 120 characters or fewer.

#### Application Type

Select the application type from the drop-down list.

#### Specialist Committee

Your application will be assessed by one of five specialist committees. From the drop-down list, you should select the committee you think is best placed to assess your application. This advice will be considered by AINSE but it does not constrain AINSE to send your application to the committee nominated.

##### **Archaeology and Geosciences**

Applications in this area would be seeking to advance knowledge in any of the branches of archaeology or geosciences. Applications may be made for AMS studies ( $^{14}\text{C}$ ,  $^{10}\text{Be}$ ,  $^{26}\text{Al}$ ,  $^{129}\text{I}$ ,  $^{236}\text{U}$ , and Pu analyses), PIXE/PIGE,  $^{210}\text{Pb}$  analyses, stable isotope analyses, multiple surface analysis, high energy heavy ion microprobe analyses, SIMS or NAA/DNAA characterisation of materials to support the aims of the project.

##### **Biomedical Science and Biotechnology**

Applications in this area will involve collaborative research into radionuclide development, radiopharmaceutical research and development, integrative biology, and imaging. For more information go to [ANSTO LifeSciences](#).

##### **Environmental Sciences**

Applications in this area would be seeking to understand problems based in environmental science, the analysis of natural processes, and experiments on organic or inorganic materials, or the biota. This would include NAA/DNAA characterisation, multiple surface analysis, aqueous radionuclide geochemistry,  $^{210}\text{Pb}$  analyses, AMS studies, tritium analyses, high energy heavy ion microprobe analyses, environmental radioisotope tracing, stable isotope analyses, aerosol measurements and aquatic monitoring.

##### **Materials - Structures and Dynamics**

Applications in this area will involve the study of the structure of materials at an atomic or molecular level involving instruments including x-ray scattering and reflectometry, electron microscopy and NMR.

##### **Materials – Properties and Engineering**

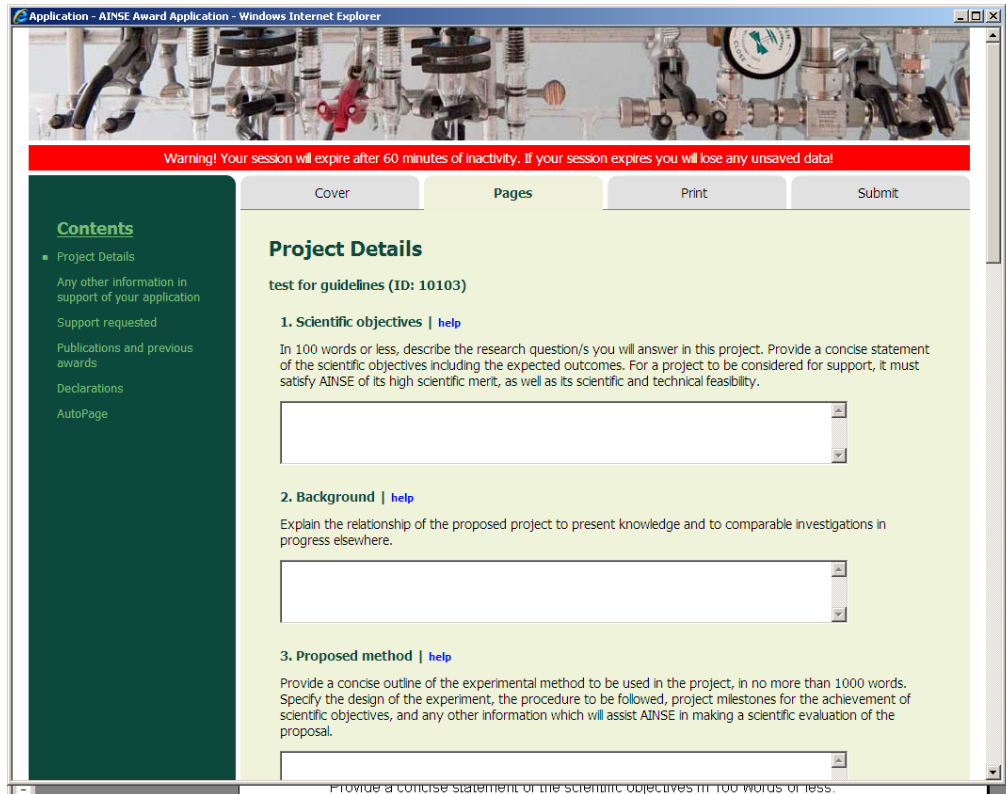
Applications in this area will involve collaborative research into the development of selective adsorbent materials, the development of nano-scale materials, the development of spectroscopic x-ray imaging technologies for diagnostic imaging and security screening applications, micro- and nano-dosimetry for applications in medical physics, radiation protection and radiobiological research, the effects of ionising radiation on critical trace evidence, x-ray test pieces and algorithms that improve border security screening performance in maritime, vehicular and aviation contexts, radiation damage effects in first wall barrier materials for fusion energy applications, radiation damage in  $\text{TiO}_2$  polymorphs, systematics of radiation damage in complex oxides, modelling of welds in structural materials, and materials properties at high temperatures.

### Cover Page

The cover page shows the details you have entered and gives your application ID.

Click on the Pages link at the top of the screen to continue. The green column now on the left links to the pages of the application form.

## Project Details



The screenshot shows a web browser window titled "Application - AINSE Award Application - Windows Internet Explorer". At the top, there is a red warning bar: "Warning! Your session will expire after 60 minutes of inactivity. If your session expires you will lose any unsaved data!". Below this is a navigation bar with tabs for "Cover", "Pages", "Print", and "Submit". The "Pages" tab is active. On the left is a green sidebar with a "Contents" menu. The main content area is titled "Project Details" and shows "test for guidelines (ID: 10103)". It contains three sections: "1. Scientific objectives | help", "2. Background | help", and "3. Proposed method | help". Each section has a text area for input. The "1. Scientific objectives" section includes the instruction: "In 100 words or less, describe the research question/s you will answer in this project. Provide a concise statement of the scientific objectives including the expected outcomes. For a project to be considered for support, it must satisfy AINSE of its high scientific merit, as well as its scientific and technical feasibility."

### 1. Scientific objectives

In 100 words or less, describe the research question/s you will answer in this project. Provide a concise statement of the scientific objectives including the expected outcomes.

### 2. Background

Supply background information that will assist the specialist committee in focussing on the scientific context of your application. You should include

- the relationship of the investigation to present knowledge and to comparable investigations in progress elsewhere and
- the relationship of the investigation to your body of work.

### 3. Proposed Method and Program

Provide a concise outline of the experimental program for the project, in no more than 1000 words. Specify the design of the experiment, the procedure to be followed, project milestones for the achievement of scientific objectives, and any other information which will assist AINSE in making a scientific evaluation of the proposal. Continuing, or closely related projects, must include a brief progress report on your current or previous AINSE Research Project(s).

Details should be given of the facilities, equipment, services, and consultations, which you plan to use. The use of such facilities must be discussed with the facility or research scientist (Contact Scientist) responsible (see 12. Primary contact scientist and Support Requested, below). The [AINSE Researchers' Guides](#) identify the research tasks in LifeSciences and Materials Engineering and the research leader. For Environmental Science, Archaeology, Geosciences, irradiations and other facilities, the Researchers' Guides list the facility contact scientists. Additional information is required for many facilities, and should be discussed with the Contact Scientist before your application is submitted. This information should be included in your application.

#### **4. Justification**

You must state clearly and concisely why the facility or facilities you have chosen is/are necessary for the project.

#### **5. Socio-Economic Code**

Using the Australian Research Council (ARC) Standard Socio-economic Objective classification give the code that most closely fits the expected outcome of the project. Codes can be found at <http://www.arc.gov.au/applicants/codes.htm>

#### **6. Fields of research code**

Using the Australian Research Council (ARC) Standard Field of Research Classification Codes give the code that most closely fits the expected outcome of the project. Codes can be found at <http://www.arc.gov.au/applicants/codes.htm>

#### **7. Australian National Research Priorities**

Select the National Research Priority that best covers the work that your application will address.

#### **8. Commercial - in confidence**

Does your application need to be regarded as Commercial - In Confidence? Select yes if the proposed project is commercially sensitive and should be treated as "commercial - in confidence" by AINSE, ANSTO and the Specialist Review Committee. Generally it is expected that information resulting from an AINSE Research Award will be made freely available.

#### **9. Other investigators**

Give the names and affiliations of other investigators and collaborators at the ASF who will be involved with this project. It is desirable that an ASF staff member be nominated to supervise students when they are at the facility.

#### **10. Research students**

List students who will be part of this project. AINSE records the names of research students who benefit from AINSE Research Awards, as the number of students is one of the measures of success that AINSE uses.

#### **11. Nationality/citizenship of all researchers intending to visit ANSTO**

Please list the nationality of all researchers (including students) who intend to visit ANSTO to conduct work.

## 12. Primary contact scientist

The primary contact scientist is the facility contact scientist or task leader who is responsible for access for the majority of the proposed work. Refer to the [AINSE Researchers' Guide](#) to determine the feasibility, ethics, safety requirements, and availability of facilities or collaborations.

It is essential that your project is discussed with the contact scientist responsible for each facility you propose to use or collaboration you propose to undertake. The contact scientist may provide you with additional information to include in your application. Your application will not proceed without such a discussion.

## 13. Other contact scientist(s)

List the names of other Contact Scientists who are responsible for other facilities and services you propose to use, and with whom the project has been discussed.

## 14. Contact scientist approval

It is essential that your project is discussed with the contact scientist responsible for each facility you propose to use or collaboration you propose to undertake before you submit your application. The contact scientist or task leader for each facility or collaboration will review all applications naming their facility or collaboration. If you have not discussed your application with the relevant facility scientists or collaborators your application will not proceed.

Click "Save and next" to continue to the next page.

## Any Other Information in Support of This Application

Use this space to provide additional supporting information, or to expand upon information given elsewhere in your application.

Upload images, documents, or spreadsheets to which you refer in your application. Please ensure they have explanatory captions so they can be easily linked to the appropriate section of your application.

Click "Save and next" to continue to the next page.

## Support Requested

### Facility Request

Details of facilities are given in the [AINSE Researchers' Guides](#). You should already have discussed your application with the contact scientist(s) or research task scientist and agreed on the most appropriate facilities, number of days (or samples) required, and availability of the facility and contact scientist(s) or research task scientist during the requested time.

For applications in LifeSciences and Materials Engineering, the research task scientist will advise the facilities to include in your application.

Select the facility from the drop-down list. Enter the quantity. Select the proposed month of use. Click "Add". The proposed month of use is key scheduling information and must be completed as accurately and realistically as possible. You can select the same facility more than once as long as the month of use is different. You can select multiple facilities for use in the same month. Click "Add" after each selection.

Since access to facilities is limited (particularly during the second half of the year), preference may be given to those components of the project which will be ready to begin in January or early in the year. On some facilities, access may be awarded for specified dates only. Researchers unable to use the facilities on those dates may forfeit their grant.

## **Travel request**

If you or a researcher (including students) named on the proposal plan to attend ANSTO or other AINSE-supported facility to carry out all or part of the project you can request travel and accommodation support.

Select the travel mode from the drop-down list. Select the researcher travelling. Click "Add". The calculation is based on your affiliation.

Travel and accommodation support is calculated on the basis of reasonably available discount air fares, or their equivalent for other forms of travel, and public transport to and from the airport. In the case of proposals from researchers at universities or institutions within reasonable driving distance of Lucas Heights or other AINSE-supported facility, petrol allowances are based on the distance between the university or institution and Lucas Heights, and the number of access days awarded.

In the normal course of events, travel and accommodation will be booked and paid for by AINSE. Researchers should complete a visit request form 3 weeks prior to the intended visit.

## **Accommodation Request**

If you or a researcher (including students) named on the proposal plan to attend ANSTO or other AINSE-supported facility to carry out all or part of the project you can request travel and accommodation support.

Enter the number of nights. Select the researcher. Click "Add".

Travel and accommodation support is calculated on the basis of accommodation charges (including breakfast and evening meal) at the Lucas Heights Motel. Accommodation awards for access to AINSE-supported facilities other than those at Lucas Heights will be based on college-style accommodation costs.

Students or researchers visiting ANSTO for extended periods may be provided home-stay accommodation.

In the normal course of events, travel and accommodation will be booked and paid for by AINSE. Researchers should complete a visit request form 3 weeks prior to the intended visit.

## **ANSTO equipment and materials**

Essential equipment and materials required for the project, which are not currently available at the ANSTO facility, may be requested for purchase with AINSE funds. These items become the property of ANSTO and are made available for use by members of university research groups. Give a brief description of the item(s) to be purchased. Give the estimated cost for each item to the nearest \$50. The total should be less than \$3000.

After you have entered the details click "Add".

Click “Save and next” to continue to the next page.

## Publications and previous awards

### 1. Relevant publications

List the four most relevant publications that have arisen from previous work carried out by you or another investigator named on your application.

If the article includes work supported by AINSE, please specify the AINSE Research Project number(s). Put a \$ (dollar) symbol to indicate that AINSE support was acknowledged and an & (ampersand) symbol to indicate that ANSTO collaborators were included as co-authors.

Appropriate acknowledgment should be made when the results of work undertaken with AINSE assistance are submitted for publication. Attention is drawn to the AINSE Gold Medal Award for excellence in research based on publications over the past five years which acknowledge AINSE support. Anyone wishing to nominate someone for this Award should complete the Gold Medal nomination form.

### 2. Previous or current AINSE awards

List the AINSE Research Project numbers and project titles of any other current or previous AINSE Research Awards held over the past five years to any of the investigators named in this application. If any of these projects have not been completed, please provide an explanation in “Any Other Information in Support of This Application”.

### 3. Publications from previous AINSE awards not previously notified

Details of all published work from previous AINSE Research Awards where AINSE has *not already been notified* should be cited here. Put a \$ (dollar) symbol to indicate that AINSE support was acknowledged and an & (ampersand) symbol to indicate that ANSTO collaborators were included as co-authors.

### 4. Funding from other bodies

AINSE Research Awards are not normally granted for projects where alternative funding is available for the use of the same facilities or to analyse the same samples. If work is supported financially by industry or other government agencies it should be done outside the AINSE system.

Applications for AINSE Research Awards from university staff attached to a Cooperative Research Centre (CRC) in support of projects not directly funded by a CRC, that is, not part of the approved research plan of the CRC, may be accepted.

AINSE will not normally support an Award to a researcher where their student holds an AINSE Postgraduate Research Award for the use of the same facilities to analyse the same samples.

Click “Save and next” to continue to the next page.

## Declarations

## **1. Collaboration**

Before you submit your application, you should discuss the extent of collaboration within the proposal with the appropriate contact scientist. A collaborative project involves intellectual input from both parties. The ANSTO (or other ASF) contribution may involve experimental design, development of the proposal and its scientific objectives, detailed analysis or interpretation of results. ANSTO scientists contribute to collaborative projects when they are in a priority research area, or in an area in which ANSTO wishes to explore new directions.

## **2. Extent of collaboration**

It is expected that a collaborative project will result in joint publication (co-authorship). AINSE strongly encourages collaboration, although it is not a necessary condition for an AINSE Research Award. Collaborative projects may receive higher priority than service projects when a facility is over-subscribed.

Non-collaborative (or service) projects are those which involve routine measurements, standard processing, and delivery of results with no analysis or interpretation by ANSTO scientists. Joint publication is not expected. Facility costs are the same whether or not the project is collaborative.

## **3. Other collaborators**

Name any other investigators who will collaborate on this project not previously named in Project details, questions 9, 10, 12, or 13.

## **4. Intellectual property**

For collaborative projects, both parties must be aware of each other's expectations for protection and exploitation of intellectual property, including patents and publications. The project investigator and ANSTO collaborator agree to advise their respective institutions if

- i. at the time of writing the proposal, there is intent to generate IP that potentially could be patented or commercialised; or
- ii. during the course of the investigation, any IP develops that potentially could be patented or commercialised.

The institutions, in endorsing the application, agree to enter into IP negotiations if requested by either party.

For service projects, ownership of intellectual property related to the project measurements resides with the university or researcher. New techniques or capabilities developed by ANSTO in execution of the project will reside with ANSTO.

## **5. Applicant's declaration - name**

Enter your full name (Given name(s) FAMILY NAME)

## **6. Applicant's signature and date**

Leave this blank. When you print your proposal use the space for your signature and date.

## **7. Verification of university/institution support**

Enter the name and designation of a member of your institution's research office who is authorised to sign your application.

### **8. Verification of university/institution support - signature, designation and date**

Leave this blank. When you print your proposal use the space for the signature of the authorised representative of your institution's research office.

### **9. Verification of AINSE requirements**

Enter the name of the AINSE Councillor at your university or institution. Details of the AINSE Councillors can be found at [http://www.ainse.edu.au/home2/council\\_-and-\\_executive](http://www.ainse.edu.au/home2/council_-and-_executive)

### **10. Verification of AINSE requirements - signature and date**

Leave this blank. When you print your proposal use the space for the signature of the AINSE Councillor at your university or institution.

Click "Save".

## **Submission procedure**

When you are satisfied that the details in your application are complete you should

1. Save a copy to your computer. Print a copy and select Submit. Do not click "Submit" until you are satisfied with your application. You cannot amend the application after submitting.
2. The printed copy must be signed by
  - the chief investigator
  - the AINSE Councillor for your university
  - an authorised member of the Research Office of your university

The completed application form should then be submitted to AINSE through the Registrar or Research Office of the member institution to which the chief investigator belongs.

**The signed original of the completed application form must be received at AINSE by the closing date 15 September 2011.**

Postal address:

Managing Director  
AINSE Ltd  
Locked Bag 2001  
Kirrawee DC NSW 2232

Courier address:

Managing Director  
AINSE Ltd  
Building 5, ANSTO  
New Illawarra Road  
Lucas Heights NSW 2234

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