



PROJECT GRANTS 2022

PLANT SCIENCE, AGRICULTURE AND FOOD BIOTECHNOLOGY

Nordic countries

Information and guidelines for applicants

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Information about the call

Grant capital:
DKK 30 million

Award amount
Up to DKK 4 million per grant

Application form opens:
June 16, 2022

Application deadline:
August 25, 2022 at 2 pm CET

Applicant notification:
December 2022

Earliest start date:
January 1, 2023

Latest start date:
November 1, 2023

Review committee:
Committee on Plant Science, Agriculture and
Food Biotechnology

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1 PROJECT GRANT FOR RESEARCH WITHIN PLANT SCIENCE, AGRICULTURE AND FOOD BIOTECHNOLOGY

Nordic countries 2022

These guidelines are intended to assist you in the application process when applying for a grant from the Novo Nordisk Foundation (NNF). It is important that you carefully read these guidelines before initiating the application process, as the guidelines contain the complete call text as well as instructions regarding the completion of the application.

NNF will treat all applicant and application information confidentially. Read more about how NNF processes personal data under 'privacy & security' in the online application system, NORMA. See how to access NORMA in section 2 of these guidelines.

Furthermore, please read 'General Terms and Conditions' for grants from NNF that all Grant Recipients must comply with: <http://www.novonordiskfonden.dk/en/content/conditions-grants>

Please, also go to [Applying for a grant](#) at the NNF website [Grants in Open Competition](#) to learn more about the NNF application and granting process.

1.1 PURPOSE

Applications are invited for project grants to support excellent research within plant science, agriculture¹ and food biotechnology. Projects must be based at a university or other non-profit research institution in Denmark, Finland, Iceland, Norway, or Sweden.

1.2 AREAS OF SUPPORT

The proposed research should address major challenges within plant, agricultural, and food science associated with developing sustainable agriculture and food production. The research should be fundamental in character with a clear and strategic outlook to improve sustainability and potential solutions. The proposed research should significantly extend existing knowledge beyond state-of-the-art and may have a high-risk profile. The research should be based on life science research disciplines.

Non-exclusive list of prioritized areas:

- Development of plants with high productivity, resiliency, and resource-use-efficiency for food, fiber, materials, fuel and energy, chemicals, or climate change mitigation
- Utilization of microorganisms to improve sustainability across the value chain from primary agricultural production to end-product

¹ Agriculture is here defined as terrestrial farming and cultivation of plants, including forestry.

- Development of agricultural-, food-, and forestry systems with higher productivity, circularity, and biodiversity, and with minimum impact on environment and climate
- Development of plant-, microorganism-, and fungi-based foods with low resource-use-technologies and high functionality, organoleptic, and nutritional quality
- Utilization of precision fermentation, fungi, algae, and cellular agriculture for novel food production
- Development of methods and technologies, including those driven by data science, that enable and support sustainable agriculture and food production.

The program will not support:

- Research primarily focusing on livestock, livestock commodities, and feed
- Research with their main research component on nutritional uptake and clinical studies.

Proposals focusing on industrial biotechnology and environmental biotechnology should be submitted to the Novo Nordisk Foundation Committee Industrial Biotechnology and Environmental Biotechnology, while proposals with a focus on pharmaceuticals and therapeutics should be submitted to the Novo Nordisk Foundation Committee on Bioscience and Basic Biomedicine.

1.3 ELIGIBILITY

Researchers with an independent research program at a university or other non-profit research institution in Denmark, Finland, Iceland, Norway, or Sweden are eligible to apply for the project grants. Eligible candidates may be at the level of senior postdoc under the condition that they can document to have established themselves as independent researchers. As the grant cannot cover salary of the grantee, the applicant must be guaranteed his/her own salary for the entire project period.²

In addition to the main applicant, applications may include one or more co-applicants who contribute scientifically to the project and will receive a financial share of the grant. A co-applicant must have an independent research program at a university or other non-profit research institution. The project may also include research partners who do not receive funding from the grant. Those research partners may be located at a for-profit organization.

The applicant has the main responsibility for developing the project, writing the application, and carrying out the proposed research.

Important restrictions regarding NNF grants and proposals:

- Applications from Master students and PhD students will not be taken into consideration.
- At any given time, you may only have one Novo Nordisk Foundation “Project Grant” application under evaluation. If you submit more than one application, only the first application submitted will be evaluated, while any subsequent applications will receive an administrative rejection. After having received notification on the funding decision, the applicant may submit a new application for a Novo Nordisk Foundation “Project Grant”.

²A letter from the administrating institution documenting employment and/or funding secured for the applicant's salary must be provided upon request from the Novo Nordisk Foundation, but is not required for the submission of an application for the grant.

- You may submit applications for other grant types, e.g. Research Leader Programmes or Pioneer Innovation Grants, while your “Project Grant” application is under evaluation if they cover different research activities.
- It is not possible to be the grant holder for more than one active Project Grant within Plant Science, Agriculture and Food Biotechnology or Biotechnology-based Synthesis and Production
- Researchers holding a Project Grant within Plant Science, Agriculture and Food Biotechnology or Biotechnology-based Synthesis and Production may apply for a new grant within this area as main applicant during the final year of the grant, however, the grant periods cannot overlap.
- It is possible for a Project Grant holder to be a co-applicant on an application submitted by another eligible applicant.

1.4 FUNDING

The total grant amount for this call is DKK 30 million. Applicants may apply for DKK 300.000-1.000.000 per year for projects lasting 1-3 years (maximum DKK 3.0 million per project). Projects with a main applicant and a co-applicant located in different Nordic countries can apply for up to DKK 1.35 million per year, i.e. maximum DKK 4 million for a three-year grant.

Applicants may apply for funding for the following types of expenses:

- **Salary** for scientific staff below the hiring level of the main applicant. The salary may include pension, holidays, etc. in accordance with the current agreements and regulations at the Nordic administrating institution (please, consult with the administrating institution for this). Funding from the grant cannot cover salary for the main applicant or co-applicant(s).
- **Salary** for research technician (costs for technical/scientific assistance)
- **Operating expenses**
- **Smaller equipment** (maximum amount of DKK 200.000 per budget year)
- **Travel expenses** in connection to conducting the research project
- **Conference participation** (maximum amount of DKK 25.000 per budget year)
- **Publication costs** (maximum amount of DKK 25.000 per budget year)
- **Bench fee** can be included in the budget for support of individual researchers to cover expenses needed to conduct the proposed research. Bench fee is calculated per academic employee actively working on the project and may only be used for expenses that are related to the research project and which cannot be included within another individual budget category. Bench fee may account for maximum DKK 8.000 per month per FTE working on the project, and the budget must specify the expenses covered by the bench fee, which may include:
 - Common or shared laboratory expenses and consumables
 - Laboratory utilities (electricity, gas, water)
 - Maintenance of essential equipment
 - Service contracts
 - Technical and IT support

Note, that bench fee cannot cover rent, administrative support, representation, social contributions etc. To include a bench fee in the budget, the fee must be a part of the general expense policy of the administrating institution, and it must apply for all employees independently of funding source. A confirmation that the administrating institution has a general bench fee policy should be included in the Hosting Letter from the administrating

Nordic Institution (Section 3.5). An unspecified bench fee without documentation will not be accepted.

- **Administrative support** may account for a maximum of 5% of the total budget and must be included therein. The administrative support:
 - can cover expenses such as for accounting, payment of salaries, purchasing, hiring, as well as auditing and financial reporting on the project
 - cannot cover administrative expenses that are not directly related to the project
 - can via the administrating institution be shared between the institutions of the main- and co-applicant(s), as detailed in the application budget
 - is not automatically included in the grant, and must be stated/applied for in the application budget, but should not be specified in detail

NNF will not award funding for:

- commercial activities
- overhead
- Double funding of projects:
 - If the applicant has received funding for parts of the project from other sources, in part or in full, this must be accounted for in the budget, as no budgetary overlaps are allowed.
 - If an identical or overlapping project proposal has been submitted to other funding institutions than the NNF, it must be noted under 'supplementary information'.
 - If the applicant, after submission of the NNF application, receives funding for the project or parts of the applied project from others, NNF must be contacted as soon as possible.



The grant may not be used to cover 'overhead' (i.e. rent, electricity, water, maintenance etc.)

1.5 LANGUAGE

The application and any additional uploads must be written in English.

1.6 APPLICATION PROCESS

The application must be completed and submitted using NNF's online application and grant management system, NORMA, which can be accessed from:

<https://norma.novonordiskfonden.dk>

Further information on how to access and navigate in NORMA can be found in chapter 2.



When all applications have been assessed, applicants will be notified about whether or not they have been awarded a grant. The notification e-mail will be sent from norma-noreply@novo.dk to the e-mail address entered on initial registration.



NNF does not provide feedback in case an application is not selected for funding.

1.7 ASSESSMENT CRITERIA

NNF's [Committee on Plant Science, Agriculture and Food Biotechnology](#) will primarily assess the applications based on the following criteria:

- Novelty and originality of the research idea
- Potential impact on the research areas mentioned in Section 1.2
- Feasibility of the proposed research
- Achievements of the applicant and co-applicants

As a general rule, the Novo Nordisk Foundation processes all applications and grants in accordance with the rules followed by public research councils and foundations. This applies, in particular, to conditions concerning confidentiality, reviewer eligibility, impartiality and conflicts of interest. Applications from ineligible applicants will not be reviewed.

If you have an active grant from NNF, this may be taken into consideration in the evaluation of your application for a new grant. In general, it is recommended that the Grant Recipient has delivered results on the active grant(s) before submission of a new application to NNF. If you apply, while having an active grant from NNF, you must describe how the project you propose in this application is different from and/or coherent with the project(s) already funded and briefly describe the progress of the already funded project(s).

During a trial period in 2022-2024, the grant selection procedure will encompass two parallel schemes: 1) Traditional committee-based evaluation. 2) Partial randomisation. For both selection procedures, all applications are assessed by the committee and categorised as either "high quality" (fundable), or "non-meritorious" (not fundable). Only applications categorised as fundable will undergo further evaluation and potentially be selected for granting through either

scheme 1) with traditional committee-based evaluation or through scheme 2) with partial randomisation. Those fundable applications that are unanimously evaluated by the committees as highest rated will be granted. The remaining fundable applications, “the grey zone”, will undergo further normal assessment by the committee (scheme 1). In parallel to scheme 1, the applications allocated to the grey zone will undergo a randomisation process where all applications from the grey zone (including those selected by Scheme 1) will be randomly selected for funding, one application at a time, until the same total number of applications is reached through scheme 2 as selected for funding through scheme 1. Successful applicants will not be informed about which scheme their application was selected through. The purpose of implementing partial randomisation in the evaluation procedure is to test new ways of grant-giving and generate new knowledge on open competition funding of research projects.

2 THE APPLICATION AND GRANT MANAGEMENT SYSTEM – NORMA

Sections 2 and 3 provide guidance on completing and submitting an application through NNF’s online application and grant management system NORMA. Section 2 contains general technical information, while section 3 contains information specific to the individual call. All the fields of the application form must be completed in accordance with these guidelines and the instructions in NORMA.

2.1 USER REGISTRATION

NORMA can be accessed through links on NNF’s website or directly at: <https://norma.novonordiskfonden.dk>

Before you begin, please read the instructions on the login page.

If you do not have a user profile in NORMA, you can register by clicking REGISTER from the login-page. Here you can also retrieve forgotten passwords by clicking the FORGOT PASSWORD-link. The main applicant should only have one user profile. Please use your work e-mail address for registration. After registration, you will receive an e-mail with your user name and a temporary password, which you can then use to log in to NORMA. After logging in for the first time you will be asked to provide a password of your own choosing.

Applicants who have previously applied for a grant from NNF or have an active grant may already have a user profile in NORMA. If you are in doubt, an existing user profile can be retrieved by clicking FORGOT PASSWORD and entering an e-mail address. If you have a user profile in the system, you will receive an e-mail with login information and a new password within 5–10 minutes.

A registered user who submits an application is legally responsible for the truthfulness of the content of the application.

If you experience technical problems, please contact NORMA Support: norma-support@novo.dk.



An applicant cannot change the e-mail address provided at registration. Please contact NORMA Support if you need to change your e-mail address.

2.2 CREATING AN APPLICATION

Initiate an application by finding the call you wish to apply for in the OPEN CALLS-section on the Applicant Portal in NORMA. Use the search filters at the top of the section to filter by e.g., overall funding area, and initiate an application by clicking APPLY NOW next to the relevant call.

Applications can be edited up until the deadline. A draft application can be saved by clicking SAVE DRAFT and may be cancelled at any time up until the deadline by clicking CANCEL APPLICATION. An application is not submitted to NNF until an applicant has clicked SUBMIT and has received confirmation that the application has been successfully submitted.

The application comprises tabbed sheets that need to be completed but not necessarily in chronological order. Fields marked with a red star (*) are mandatory to fill in.

You can review the application at any time by reopening from within NORMA. Opening the application will also allow you to download the application in its entirety as a PDF. Make sure the PDF is readable and formatted appropriately before submitting your application.

2.3 TEXT AND ILLUSTRATIONS

For all applications, the individual fields must be completed in accordance with these guidelines and the instructions supplied in NORMA.



To prevent loss of data, it is essential to press SAVE DRAFT before you leave NORMA or navigate in the system.

TEXT FIELDS

Text from Microsoft Word or comparable word processors can be copied and pasted into most text fields of the application. It is, however, important to check that formatting, special characters, and symbols have not been converted or lost in the text fields after copying and pasting. If the formatting looks wrong in NORMA or in the PDF, try changing all text to *Normal* using the FORMAT dropdown. It is the responsibility of the applicant to ensure that the pdf looks correct before submitting.

The available options for formatting text are at the top of the text fields. Some shorter text fields do not have the option to use rich text formatting.



For readability purposes, standard fonts, font size 11-12, and line spacing between 1.0 and 1.5 must be used.

ILLUSTRATIONS

Illustrations such as figures, charts, tables, images, etc. related to the project description can be uploaded under PROPOSAL. A maximum of four illustrations are allowed. The illustrations will be placed on a separate page in the application PDF but can be referenced throughout the project proposal as needed. For readability, please name the files numerically by the order in which they are referenced.

The following file formats for illustrations are accepted in the system: JPG, JPEG, PNG and BMP. The maximum accepted size for each illustration is 1050*1650 pixels.

2.4 SUBMITTING THE APPLICATION

The application in its entirety must be submitted electronically via the application system by clicking SUBMIT. It is not possible to submit an application or any part of it by standard mail or e-mail. Any material submitted outside the application system will not be included in the evaluation and will not be returned.



Please remember to check that the PDF version of the application is legible and contains all data and uploads before submitting.

All applicants must read and accept NNF's [Standards for Good Research Practice](#) before submitting the application. Further, the applicant must declare that the information provided in the application is true and accurate.

Once the application has been submitted, a confirmation of receipt will be sent to the e-mail address used for logging into the system. If you do not receive a confirmation of receipt (please check your spam folder), you should contact NNF as soon as possible using the contact details on page 3.

An application cannot be submitted unless all the required fields have been completed. Applications can be cancelled at any time before submission. If you need to withdraw an application after the deadline, please get in touch with NNF via e-mail, using the contact information on page 3.



A list of any incorrect or incomplete entries will be generated at the top of the screen when you click **SUBMIT**. Clicking one of these error messages will take you to the relevant field. Amending incorrect or incomplete entries can be time-consuming, so we recommend submitting applications well before the deadline.

3 APPLICATION CONTENT

This section provides guidelines on the content required in the sections of the online application form for this call.

3.1 APPLICANT

The **APPLICANT** tab contains various sections with information about the main applicant and the **CO-APPLICANT** tab contains information about potential co-applicant(s). It is collected through individual tasks in the **APPLICANT DETAILS**-section, detailing personal information, experience, current institution, publication history, application history with NNF, etc.

MAIN APPLICANT

The main responsible party for the application can enter their details through the Applicant Details-task with the type 'Applicant'. After filling in all mandatory fields, the applicant should complete the task to save the details.

CV

Please provide your brief CV with information on education, employment history, recent research funding, current supervision/training/teaching activities, summary of publication and bibliometric information (total number of peer-reviewed publications, first/corresponding/senior authorships, citation information, h-index), and other relevant information if space allows (max. 4,000 characters, including spaces).

PUBLICATION LIST

Please provide the complete reference information for your most important publications (up to 10). Include all authors (or number of authors, if necessary) for each publication and use bold or underline for your name. Applicants should include a link to an updated profile with a full publication list for the applicant on either Google Scholar, Web of Science, Scopus or ORCID. (max. 5,000 characters, including spaces).

SUMMARY OF OWN RESEARCH

Please summarize your own research that is of relevance to this application. (max. 2,000 characters, including spaces)

SUPPLEMENTARY INFORMATION

This field can be utilized if there is additional information that is important for the committee's review of your application. (max. 2,000 characters, including spaces).

PREVIOUS AND CURRENT GRANTS FROM NNF

If you have previously submitted other applications in the same calendar year, summarize how these applications are related to the current application.

If you have received any grants from NNF as an applicant or a co-applicant within the past five years, you must provide the application number, project title, grant period (in years), grant amount and the percentage share of the grant (100% if there is no co-applicant). Briefly summarize how any of the grants are related to the current application.

3.2 CO-APPLICANT(S)

Up to five co-applicants are allowed for the application. Co-applicants participate actively in organizing and implementing the project and receive a share of the grant. The project description should clearly describe the role of any co-applicants, and the budget should clearly indicate the co-applicants' share of the total budget. Co-applicants must be invited through NORMA and subsequently enter their details in the system. Please follow the instructions in NORMA on how to invite co-applicants to your application.



Note that inviting co-applicants can be time-consuming. Please start the invitation process as soon as possible and well in advance of the submission deadline

When the co-applicant accepts his or her invitation and has registered as a user in NORMA, they will gain access to the application. In addition, they will be assigned an APPLICANT DETAILS-task, available under MY TASKS from the APPLICANT PORTAL in NORMA. With this task, co-applicants should input details such as their institutional affiliation, work and publication history, application history with NNF and will be able to upload supporting documents such as a short CV (maximum two pages) or an endorsement from the institution.

Co-applicants will only be able to edit their own APPLICANT DETAILS-task, as well as make changes to the main application. The main applicant, on the other hand, can review and edit all Applicant Details-tasks for the application including those for co-applicants.



Please note that co-applicants can read, edit, and upload information in the entire application but cannot submit the application.

3.3 INSTITUTION

Please provide information about the institution where the grant will be administrated. This institution is where you will be employed during the grant period and the institution which will be responsible for budgeting, accounting, and staff supported by the grant.



Registering a new administrating institution in NORMA can take up two working days. The application can be edited but cannot be submitted before this information is registered. We therefore recommend that you register an administrating institution in good time.

3.4 PROPOSAL

Describe the project using the fields on the PROPOSAL tab. Each field will have a short instruction text describing the expected input and maximum characters available.

PROJECT TITLE

Please provide a short title for the project (maximum 150 characters, including spaces).

BRIEF PROJECT DESCRIPTION

Please provide a brief stand-alone summary of the project describing its purpose, the scientific question being addressed and activities. (maximum 2,000 characters, including spaces).

PROJECT DESCRIPTION

Please describe your proposed research project in detail. Elements to be included are (maximum 20,000 characters, including spaces):

- Major challenge being addressed and strategic outlook. How does the proposed research help to provide solutions enabling sustainable agriculture and/or food production?
- Specific aims, testable hypotheses, and success criteria.
- Critical knowledge gaps and identification of important research questions.
- Scientific background covering state-of-the art most relevant to the project.
- Experimental plan including methods and technologies to be utilized and/or developed.
- Alternative approaches, risk assessment and contingency plans.
- Discussion of experimental outcomes and potential impact.

If the project will occur in more than one investigator's laboratory, include information regarding how work on the project will be divided and integrated. If the project is a part of larger project or is related to ongoing projects in the same group/team, this must be explained. The activities to be supported by the NNF grant should be specified.

ILLUSTRATION UPLOADS

A maximum of four illustrations of 50 MB each can be uploaded here. Accepted formats are .jpg, .png, .gif, .bmp.

LITERATURE REFERENCES

Please provide the reference information for the literature cited in the project description (maximum 4,000 characters, including spaces).

LAY PROJECT DESCRIPTION

Please provide a brief summary for non-experts in lay language. If the application is awarded a grant, the text may be used for publication (maximum 1,000 characters, including spaces).



Please note that the application should address all the assessment criteria listed in subsection 1.7.

3.5 BUDGET

The budget for the project applied for only comprises the information entered on the BUDGET tab. Additional budget information attached under UPLOADS or added on any other tabs than BUDGET will not be considered.

GRANT PERIOD

Before you can fill in the budget template, start by entering the start and end dates for the grant. This will determine the number of years available from the budget template. The grant period is the duration of NNF's grant for the project, and the budget counts years following the project start date rather than calendar years.

CREATE BUDGET

After saving the project start and end dates, the budget template will become available to edit. The budget will open in a new tab, in which you will need to add the subcategories you need for your budget. Please follow the instructions at the top of the screen to complete the budget.

Notes:

- The budget continuously saves changes you've made without the need to manually save. You are free to leave the budget at any time and come back at a later point.
- When you are done filling in your budget, please use the SAVE AND CLOSE button. This will check that all information has been filled out correctly and in accordance with the guidelines, saving the budget to your application.
- You can now return to the BUDGET tab. A summary of the budget will be displayed, review it to ensure that it is correct.
- The full budget details can be viewed or edited at any time before submission of the application by reopening the budget template.

Any comments about the budget can be entered in the SUPPLEMENTARY INFORMATION field. The number of months covered by the budget in individual budget years should be specified here if they differ from 12 months.

Funding, both received and applied for, from the applicant's own organisation and from other sources should be entered under ADDITIONAL CONTRIBUTIONS FOR THE PROJECT. The amount entered should be the total sum for the entire grant period. The NNF does not allow double funding and there can be no budgetary overlaps between projects.

The INFORMATION FOR ADDITIONAL CONTRIBUTIONS field must clearly describe what the additional contributions cover and how the project proposed in this application is different from the project already funded or applied for from other parties than NNF. If the applicant, after

submitting the application, receives funding for the project or parts of the applied project from others, the NNF must be contacted as soon as possible.

The way in which the budget is set up influences any later financial reporting to NNF. Please note that the financial accounts must have the same headings as the budget posts in the application.



Applicants may only apply for the types of expenses listed in subsection 1.4.

3.6 APPENDICES

HOSTING LETTERS

- A hosting letter from the planned administrating institution in Denmark, Finland, Iceland, Norway, or Sweden acknowledging that the main applicant can conduct the proposed project at the institution. If a bench fee is included in the budget, the hosting letter must include a statement that this fee is part of the general expenses policy of the administrating institution (Section 1.4).

All uploads must be in PDF format. NORMA automatically places these uploads at the end of the application. Please respect the page limitation and the upload requirements stated in the call. Uploads in excess of these limits may not be considered for evaluation.

June 2022

The Novo Nordisk Foundation

The Novo Nordisk Foundation is an independent Danish Foundation with corporate interests. The objective of the Novo Nordisk Foundation is twofold: To provide a stable basis for the commercial and research activities conducted by the companies within the Novo Group and to support scientific and humanitarian purposes.

The vision of the Novo Nordisk Foundation is to contribute significantly to research and development that improves the lives of people and the sustainability of society.