

THE FRIENDS OF THE UNIVERSITY OF READING**GRANT APPLICATION FORM**

The Friends welcome applications from across the University and associated organisations that support projects which promote the welfare of the University, develop public interest in its work and aid its outreach activities. Grants will not normally be made for expenditure which would generally be funded from University academic resources. Grants are awarded on the condition that they are publicly acknowledged and that the funds are spent by 24 March the following next year. Further information on the grants process and previous grants awarded can be found on <http://thefriends.org.uk>

Name of Project 3D Printing of objects and buildings from Palmyra an ancient Greco-Roman town, the Ure museum and ancient Greek musical instruments.

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What is the grant to fund?

The grant requested will be needed to buy printing material to 3D print various objects to be displayed in the museum and classics corridor.

The Classics department has had for quite some time a 3D printer which at the moment receives only very limited use, it is a large and very advanced version capable of printing quite large objects in a relatively short amount of time compared to many printers.

There are a considerable amount of items of Greek origin in the museum that I would like to either recreate by using photogrammetry using the scanner donated by the Friends of the University and 3D print once they have been scanned appropriately; they would then all be placed in display cases in the museum or added to a 3D print of my dissertation project, which in turn would be displayed either in the Classics corridor or in the Museum.

My dissertation project that will span 4 years during my part time PhD is a fully interactive reconstruction of the ancient town of Palmyra; on top of being a digital project, there is a possibility of printing the buildings, statues and objects which I will reconstruct and if finances allow, even make a full model reconstruction of the town, a feat only achieved by the Italians in a small part by 3D printing just the main Triumph Arch.

If I was allowed to have finances for printing plastic material and possibly a display case, due to the Greco-Roman design of the ancient city, this would complement the artefacts present in the Ure Museum and create a new point of attraction and interest in both the Museum and the Classics department as no other university has such a project in place.

This would involve a considerable amount of time as I am hand-making the whole town for my digital project, but with the right finances in place, this would allow me to share the project with the University and the museum, making it an attraction point for both prospective students and museum visitors (we will also be teaching a digital reconstruction module with Dr. Nicholls next term and it will be a good opportunity for students to create objects that can be added to the project accelerating the process and showcasing the results of our teaching). Furthermore, some small paper prints of the digital model could be showcases on the wooden parts of the display case, showing out combination of digital and physical designs.

Furthermore, in conjunction with my project and the 3D printing of museum objects, there are also 2 other PhD students interested in making a 3D printed ancient musical instruments display and they have asked me to consider their printing material needs too.

Who will benefit from the Project? Current and future students, colleagues, visitors, and applicants. The project will help raise the profile of our work, providing a constructive and attractive visual signal.

Overall project cost (inc VAT) £1000

Amount requested from The Friends £1000

If the grant requested is not the same as the overall project cost, please indicate how the remainder will be funded:

The supplied quotes are self-researched, I looked at the average price of a 3D print spool 30-49.99 x Kg, calculated the average amount needed to print out the projects (15Kg) considering the models I have in program to make and looked for a suitably big display case of 0.5m in width on wheels (an approximate 200-250 pounds) in order to allow the department and the Museum to move it round as they see fit (in the unlikely event that we underspend) can either be used to create some extra models which will be displayed on top of the ones already in program or will be used to get better signage, otherwise returned to the Friends of the University.

Are there any running costs or other ongoing costs associated with this application, if so how will these be funded? No

How will the contribution from The Friends be publicly acknowledged (e.g. by a plaque, website etc)?

We would be more than happy to acknowledge The Friends in whatever caption we put with the images, models and cases.

Please ensure that this application has the approval of your Head of School / Service/Organisation.

Name of Head Dr. Emma Aston

Email address e.m.m.aston@reading.ac.uk

Please return your application to thefriends@reading.ac.uk by **17 April 2018 with subject heading Grant application.**

If you have not received an acknowledgment within 5 days of submitting your application, please contact us.