Dear FMG, ANZ Team,

Based on our discussions, please find below an offer for customized ZEN workflow with ZEN Blue in acquisition mode and ZEN Core in analyze mode for petrography samples.

The total price for the module is 5,000 Euros.

Please don’t hesitate to contact us in case of any questions.

Best Regards,

Dr. Manoj Mathew

# Offer for custom solutions

**Overview**

Fortescue Metals Group (FMG), Australia, is interested in acquiring microscopy images to inspect and analyze petrography samples using Zeiss Axioscan 7 Geo, a slide-scanner with an automated petrographic module for digitization quantification and collaboration. The petrography sample images are acquired using the ZEN Blue software associated with the microscope. The customer wants to analyze the acquired images and compute grain-size parameters from the acquired sample images. They also need computation of additional features like Area-percentage and Percent Distribution versus Area. We offer a workflow by combining the ZEN Blue functionalities with that of ZEN Core.

**Description of Software Workflow:**

**Software Workflow [customized ZEN workflow with ZEN Blue in acquisition mode and ZEN Core in analyze mode for petrology samples**

The offered workflow comprises two parts

1. Synchronization of acquisition software (Zen Blue) and analysis software (Zen Core)
2. Customized grain size analysis with added features (Area-percentage and Percent Distribution versus Area Chart)

The Zen Blue software will perform the following:

1. Acquire petrology sample images
2. Create an Intellesis-based machine learning model for segmentation with pre-acquired images

The Zen core software will perform the following:

1. Perform grain-size analysis using Intellesis model to obtain grain parameters like grain size, area, etc.

The custom solution will perform the following:

1. **Synchronization of acquisition software (Zen Blue) and Analysis software (Zen Core)**

The custom solution workflow enables the seamless transfer of acquired images in ZEN Blue to ZEN Core workbench for subsequent customized grain size analysis. The two platforms can run concurrently and are synchronized using a software tool.

1. **Customized grain size analysis with added features (Area-percentage and Percent Distribution versus Area Chart)**

The standard ZEN Core Grain Size Analysis Module performs image analysis on grain images and computes grain parameters like size, area, etc. The module also generates the histogram chart illustrating the percent distribution of grains versus the grain-size number. Moreover, these results can easily be accessed by the user in the ZEN Core Report. The information in the report can be further enhanced by adding the histogram/pie chart showing percent distribution against area of the grains as desired by our customer. A specialized macro-based solution computes the frequency distribution of grains with respect to their area.

**Pricing Information**

The estimated delivery time is three months from the placement of the purchase order:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No: | Description | Catalog Number | Unit Price (Euro) | Unit Nos |  | Total Price (Euros) |
| 1 | Customized ZEN workflow with ZEN Blue in acquisition mode and ZEN Core in analyze mode for petrography samples | 410190-0105-005 | 5000 | 1 |  | **5,000** |
|  | Total |  |  |  |  | **5,000** |

This offer is valid until the xxxxx.

We hope this offer corresponds to your requirements.

Carl Zeiss Microscopy GmbH