**Recommend a computer system for a given purpose.**The brief does not state the exact purpose of the computer systems I am to recommend, but I can deduce they must:

* Have office software
* Have anti-virus
* Not lag/freeze under day-to-day load.
* Allow the user to decide on an OS.

**Hardware**Based on these criteria, I can immediately rule out buying Macs for every workstation – This would be incredibly expensive (buying 2000 of the cheapest model would cost £1.8 million) and would require a re-install for anyone who didn’t want to use OS X (which would likely be the majority).  
I have made a table showing parts, with prices from the cheapest retailer, and why I have chosen that part.

|  |  |  |  |
| --- | --- | --- | --- |
| Part |  | Price (£) | reason |
| CPU | Intel Core i3-550 3.2GHz Dual-Core Processor | 62 | Powerful enough for day-to-day use, but not overly expensive. |
| Motherboard | Intel DH57JG Mini ITX LGA1156 Motherboard | 198 | Guaranteed compatibility with CPU, and supports up to 8GB of RAM |
| GPU | Radeon HD 5450 | 24 | Powerful enough for day-to-day use, quiet, and low power rating |
| RAM | Crucial 4GB (2 x 2GB) DDR3-1600 Memory | 17 | Enough RAM for everyday multi-tasking |
| Case | Zalman ZM-T4 MicroATX Mini Tower Case | 13 | Small & unobtrusive, good ventilation. |
| Storage | Western Digital AV 250GB 3.5" 7200RPM Internal Hard Drive | 18 | 250GB is enough for normal use, and has high read/write speed. |
| Monitor | Samsung FX2490HD  1920 \* 1080 24.0" Monitor | 18 | High resolution, ideal size, and low price |
| Optical drive | Samsung SH-118CB/BEBE DVD/CD Drive | 8 | Quiet & fast, ideal for normal usage |
| Mouse | Kensington K72356US Optical Mouse | 6 | Can be used by left & right handed people, highly recommended on pcpartpicker.com |
| keyboard | Dell KB212-B Ergonomic Keyboard | 10 | Standard keyboard, but ergonomic & quiet. |
| PSU | 300W ATX Power Supply | 32 | Higher rating than needed, almost silent. |

Source: http://uk.pcpartpicker.com/p/YQBRpg

The computer build I have outlined is powerful enough for its intended environment, but is relatively cheap at around £400. Buying 2000 would cost around £400,000 (adjusted for bulk discount), less than half the price of buying iMacs. The price would be reduced further if some staff used a BYOD scheme.

**Software**I have made a table outlining chosen software, and why I have chosen it.

|  |  |  |  |
| --- | --- | --- | --- |
| Type of software | Chosen software | Price | Reason |
| OS | Windows 10 | Free | Free, well-supported & easy to use |
| Office | Libre Office | Free | All of the features of Microsoft Office, but free |
| Anti-virus | AVG | Free | Has many useful features besides anti-virus, and free. |